LCD TV

# Directions for Use

Important!
Return your
Warranty
Registration Card
within 10 days.
See why inside.

## *Need help?*
## *Call us!*

*Philips representatives are ready to help you with any questions about your new product. We can guide you through Connections, First-time Setup, or any of the Features. We want you to start enjoying your new product right away!*

***FOR FAST HELP PLEASE CALL,***
***1-800-531-0039***
***or***
***Visit us on the web at***
***www.philips.com***

*Let's make things better.*

PHILIPS

3139 125 31421

# Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

***Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.***

## Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

## Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

## Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

**Congratulations** on your **purchase,** and welcome to the **"family!"**

**PHILIPS**

**Dear PHILIPS product owner:**

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome–and thanks for investing in a PHILIPS product.

Sincerely,

Lawrence J. Blanford

Lawrence J. Blanford
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

## Know these **safety** symbols

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡ This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

❗ The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

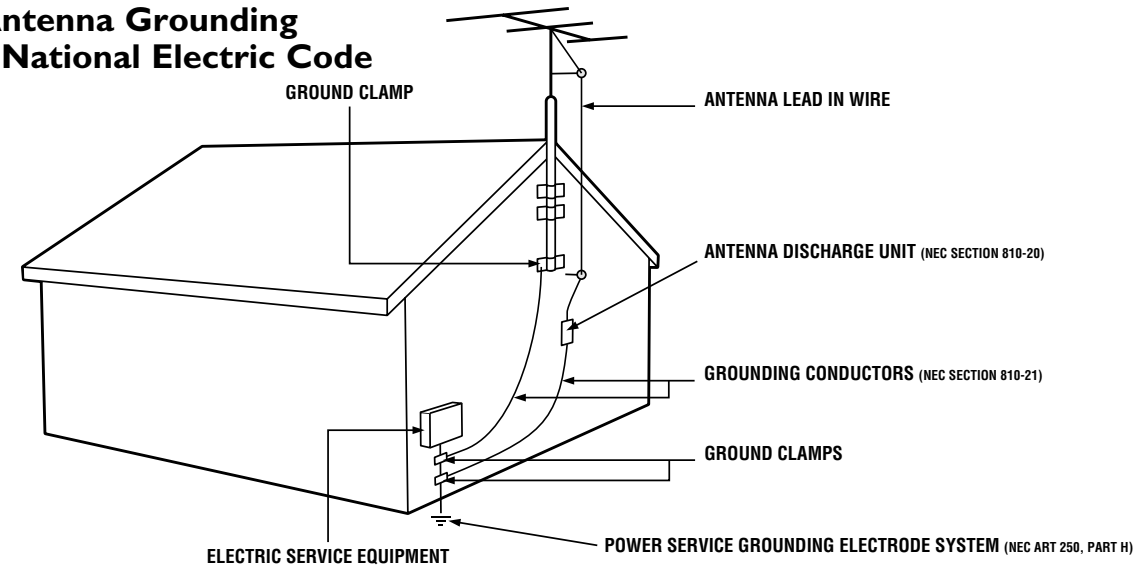
ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

# IMPORTANT SAFETY INSTRUCTIONS
## Read before operating equipment

**1.** Read these instructions.
**2.** Keep these instructions.
**3.** Heed all warnings.
**4.** Follow all instructions.
**5.** Do not use this apparatus near water.
**6.** Clean only with a dry cloth.
**7.** Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
**8.** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
**9.** Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
**10.** Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
**11.** Only use attachments/accessories specified by the manufacturer.
**12.** Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
**13.** Unplug this apparatus during lightning storms or when unused for long periods of time.
**14.** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
**15.** This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
**16.** **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
  **A.** The power supply cord or the plug has been damaged; or
  **B.** Objects have fallen, or liquid has been spilled into the appliance; or
  **C.** The appliance has been exposed to rain; or
  **D.** The appliance does not appear to operate normally or exhibits a marked change in performance; or
  **E.** The appliance has been dropped, or the enclosure damaged.
**17.** **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
• Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
• Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
**18.** **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
**19.** **Power Lines** - An outdoor antenna should be located away from power lines.
**20.** **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
**21.** **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
**22.** **Battery Usage CAUTION -** To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
• Install all batteries correctly, with + and - aligned as marked on the unit.
• Do not mix batteries (old and new or carbon and alkaline, etc.).
• Remove batteries when the unit is not used for a long time.

**Note to the CATV system installer:** This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

**Example of Antenna Grounding as per NEC - National Electric Code**


GROUND CLAMP
ANTENNA LEAD IN WIRE
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
ELECTRIC SERVICE EQUIPMENT

# PRECAUTIONS

## Additional Safety Precautions:

- Do not shift or move the LCD TV around when it is powered on.
- Do not connect any AC/DC adapter to your LCD TV that does not originally come with the television. Only use the recommended part or parts that are approved by Philips Consumer Electronics.
- Caution: Do not use any cover or enclose the AC/DC adapter with any objects like a cloth or box which might shorten the life of the equipment.
- Do not touch, push or rub the surface of the LCD screen with any sharp or hard objects.
- When the surface of the LCD screen becomes dusty, wipe it gently with an absorbent cotton cloth or other soft material like chamois. DO NOT use acetone, toluene or alcohol to clean the surface of the screen. These chemicals will cause damage.
- Wipe off water, or saliva as soon as possible. Long exposer time to liquids can cause deformation and color fading of the LCD screen.
- Be careful of condensation when temperature changes occur. Condensation can cause damage to the LCD screen and electrically parts. After condensation fades, spots or blemishes will be present on the LCD screen.

## Positioning the LCD Television:

- Place the LCD TV on a solid, sturdy base or stand. Be sure the stand is strong enough to handle the weight of the LCD TV.
- Try to leave at least 6” of space around each side of the LCD TV cabinet to allow for proper ventilation.
- Do not place the LCD TV near a radiator or other sources of heat.
- Do not place the LCD TV where it can be exposed to rain or excessive moisture.

## Recycling Procedure/End of Life Disposal:

- To minimize harm to the environment, the batteries supplied with the LCD TV do not contain mercury or nickel cadmium. If possible, when disposing of batteries, use recycling means available in your area.
- The LCD TV uses materials that can be recycled. To minimize the amount of waste in the environment, check your area for companies that will recover used televisions for dismantling and collection of reusable materials, or contact your dealer for TV recycling tips.
- Please dispose of the carton and packing material through the proper waste disposal management in your area.

**NOTE: It is possible that this owner's manual may be used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television system. While every effort is made to give the consumer the most accurate information possible regarding this product, normal changes in production could occur effecting the images and onscreen menu procedures outlined in this manual. This is normal and does not require you contacting your dealer or requesting service.**

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***Here are a few of the features built into your new Television:***

**Active Control™** continuously measures and corrects all incoming signals to help provide the best picture quality. This feature monitors and corrects both the sharpness control and noise reduction control.

**Audio/Video Jack Panels** allows direct connections with VCRs, DVDs, PCs or other devices, providing quality TV picture and sound playback.

**Audio Volume Leveler (AVL) Control** keeps the TV sound at an even level. Peaks and valleys that occur during program changes or commercial breaks are reduced, making for a more consistent, comfortable sound.

**AutoChron™** automatically sets the right time of day and maintains it with digital precision through brownouts, power failures, and even Daylight Savings Time adjustments.

**AutoLock™** allows you to block the viewing of certain channels or programs with certain ratings if you do not want your children to view inappropriate materials.

**Auto Programming** scans (when activated) for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

**AutoPicture™** allows you to change the picture settings (color, tint, contrast, etc.) for various types of programming, such as sports, movies, multimedia (games), or weak signals with the push of one button.

**AutoSound™** allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls (Voice, Music, and Theatre) enable you to tailor the TV sound so as to enhance the particular programming you are watching.

**Closed Captioning** allows the viewer to read TV program dialogue or voice conversations as onscreen text.

**Infrared Remote Control** works your TV and other remote-controlled devices, such as VCRs, DVD players, cable converters, and satellite receivers.

**Surf Button** allows you to easily switch among only the channels that are of interest to you (the ones that you have

programmed into the TV's Surf control through the onscreen menu).

**Timer** allows you to set your TV to turn itself ON and OFF once or daily like an alarm clock.


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# How to Use the Language Control

*For or Spanish- and French-speaking TV owners, an onscreen LANGUAGE option is present. The LANGUAGE control enables you to set the TV's onscreen menu to be shown in either English, Spanish, or French.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.

**3** **Press the CURSOR RIGHT button** to shift the menu to the left and highlight LANGUAGE.

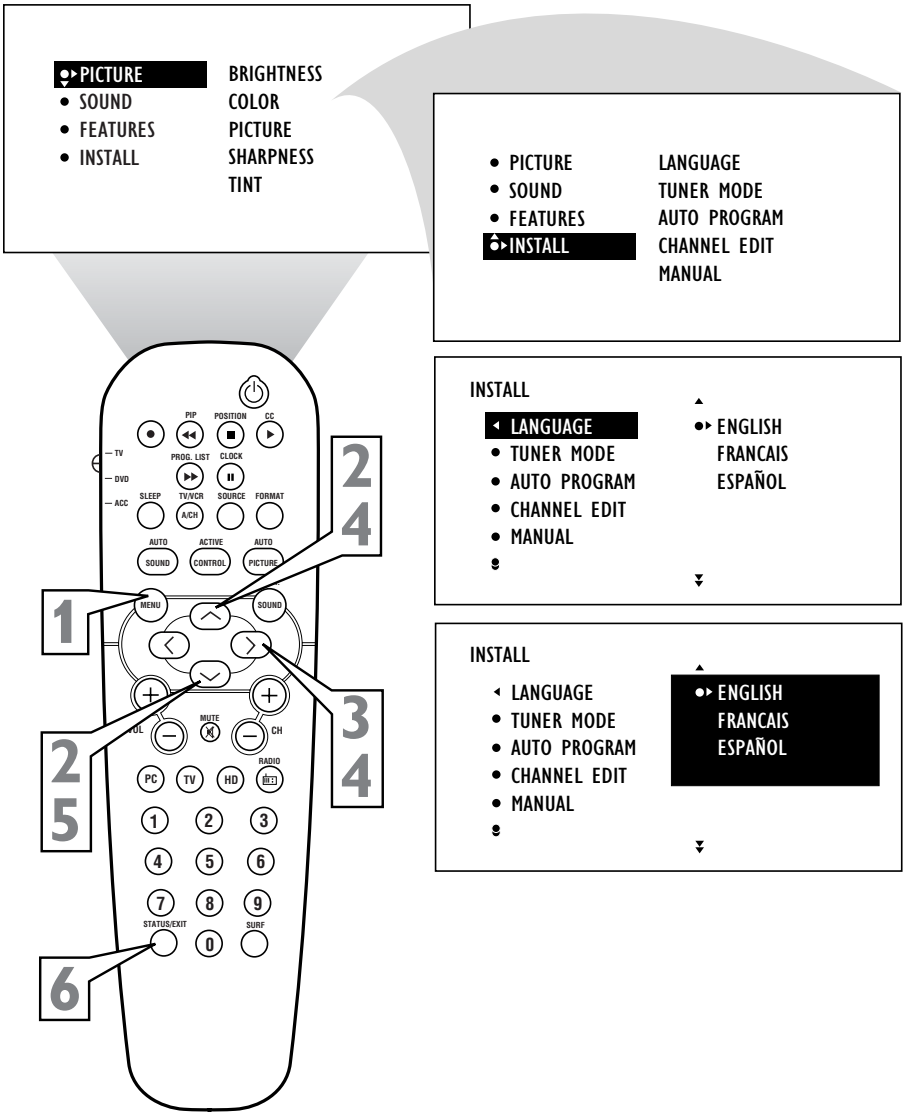
**4** **Press the CURSOR RIGHT button** to highlight the LANGUAGE control options.

**5** **Press the CURSOR UP or CURSOR DOWN button** to select ENGLISH, ESPANOL (Spanish), or FRANCAIS (French).

**6** **Press the STATUS/EXIT button** to clear the menu from the screen.

## *Helpful Hint*

Remember, the LANGUAGE control makes only the TV's onscreen MENU items appear in English, Spanish, or French text. It does not change the other onscreen text features, such as Closed Captioning (CC), with TV shows.



# How to Use the Tuner Mode Control

*The TUNER MODE allows you to change the TV's signal input to CABLE, ANTENNA, or AUTO mode. It's important for the TV to know if you want to receive channels from a cable TV signal or a normal antenna signal.*

***NOTE:** The AUTO mode setting helps the TV determine the type of signal or channels being received when AUTO PROGRAM is activated.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.

**3** **Press the CURSOR RIGHT button** to shift the menu to the left.

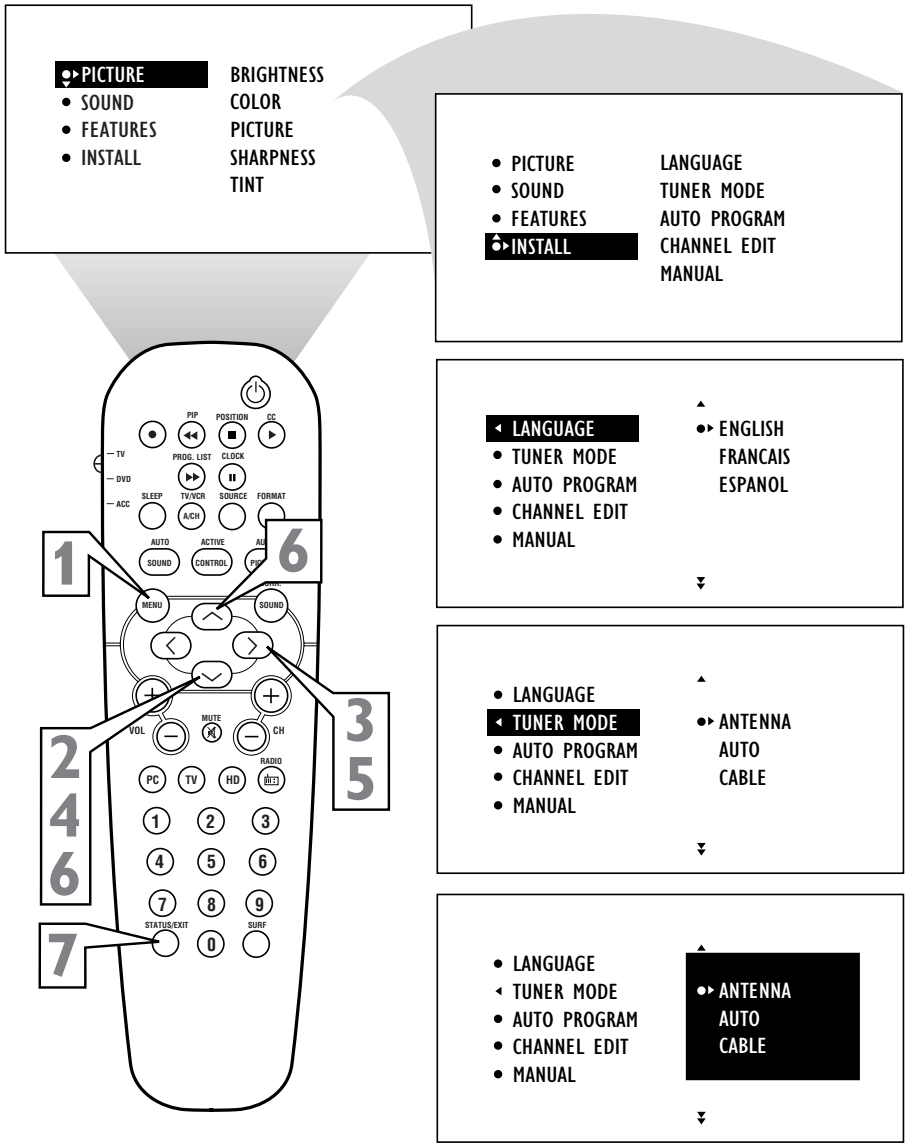
**4** **Press the CURSOR DOWN button** to highlight the TUNER MODE control.

**5** **Press the CURSOR RIGHT button** to highlight the tuner options.

**6** **Press the CURSOR UP or CURSOR DOWN button** to select CABLE, ANTENNA or AUTO.

If TUNER MODE is set to AUTO, Auto Program (see below) will detect whether or not cable input is present.

**7** **Press the STATUS/EXIT button** to clear the menu from the screen.




## *Helpful Hint*

When CABLE is selected, channels 1–125 are available.

When ANTENNA is selected, channels 2–69 are available.

# How to Auto Program TV Channels

*Your TV can automatically set itself for local area (or cable TV) channels. This makes it easy for you to select only the TV stations in your area by pressing the CHANNEL (+) or (–) button.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

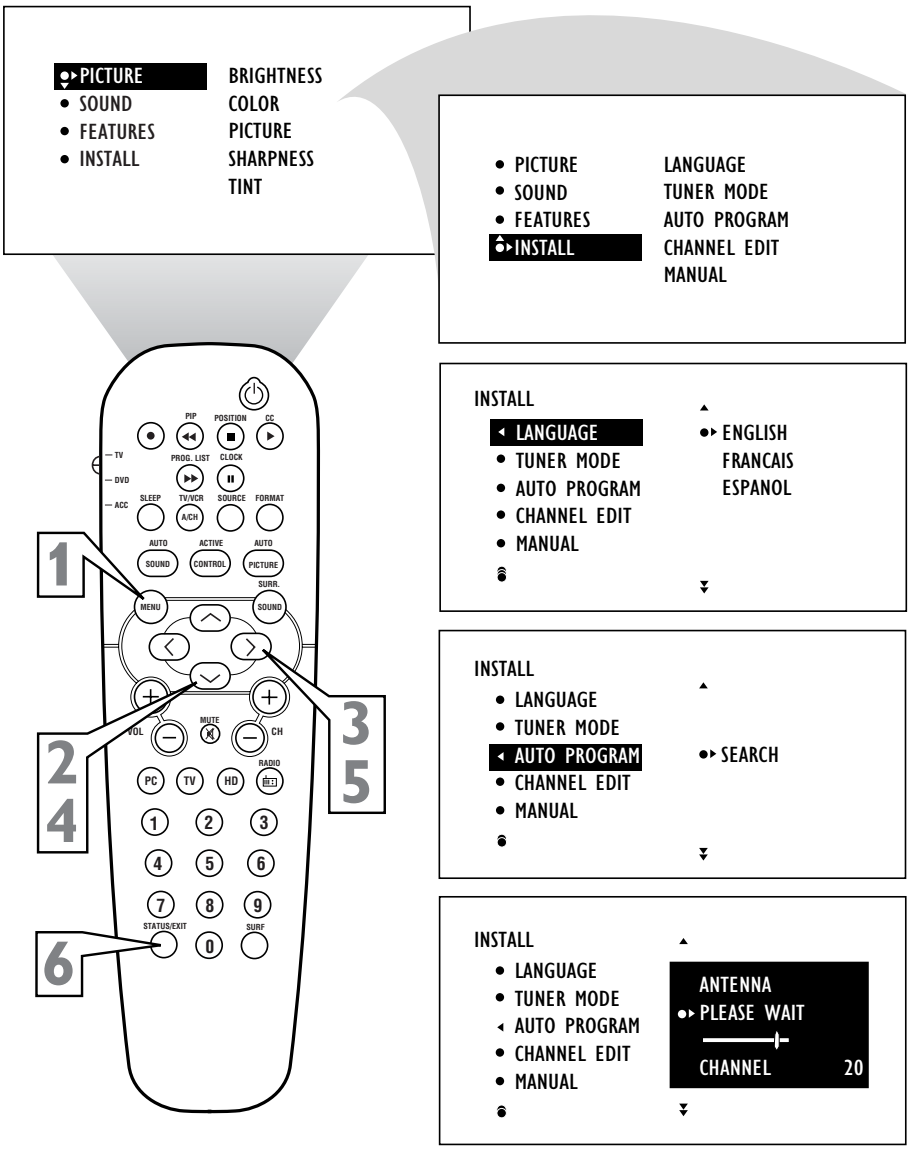
**2** **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.

**3** **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.

**4** **Press the CURSOR DOWN button** repeatedly until the AUTO PROGRAM control is highlighted.

**5** **Press the CURSOR RIGHT button** to start the Auto Program scanning of channels.

**6** **Press the STATUS/EXIT button** to clear the menu from the screen.




## *Helpful Hint*

After you've run Auto Program, check out the results. Press the CHANNEL (+) or (–) button and see which channels you can select.
Remember, an antenna or cable TV signal must first be connected to your TV (see instructions for making connections on page 1 of this guide).

# How to Add or Delete Channels (Channel Edit Control)

*CHANNEL EDIT makes it easy for you to add or delete channels from the list of channels stored in the TV's memory.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.

**3** **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.

**4** **Press the CURSOR DOWN button** repeatedly until the CHANNEL EDIT control is highlighted.

**5** **Press the CURSOR RIGHT button** to access the CHANNEL EDIT menu.

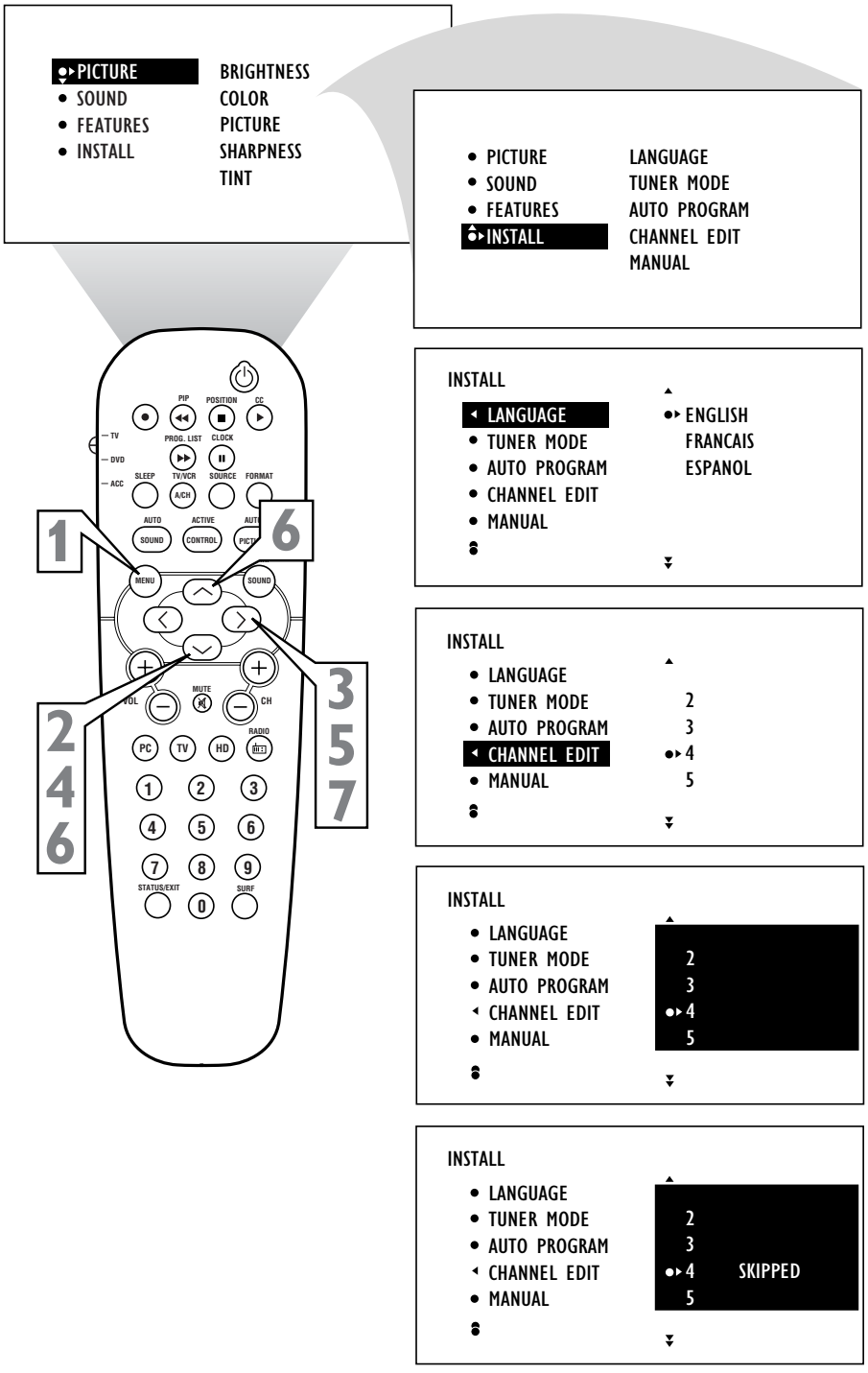
**6** **Press the CURSOR UP or CURSOR DOWN button** to scroll through the list of available channels. Or press the number buttons on your remote control to select a specific channel (for example, press *0* and then *2* to select channel 2).

**7** With the channel you want to edit selected, **press the CURSOR RIGHT button** to mark the channel as SKIPPED. The channel you've marked SKIPPED will not appear when you are changing from channel to channel while watching TV.

**NOTE:** When you want to add a channel that has been marked SKIPPED, **press the CURSOR UP or CURSOR DOWN button** to highlight the channel; then **press the CURSOR RIGHT button** to remove the word SKIPPED.

## *Helpful Hint*

The channels available for you to edit are the ones that the AUTO PROGRAM feature found through a search of your TV antenna or cable TV signals. Channels not found during the search are marked SKIPPED.



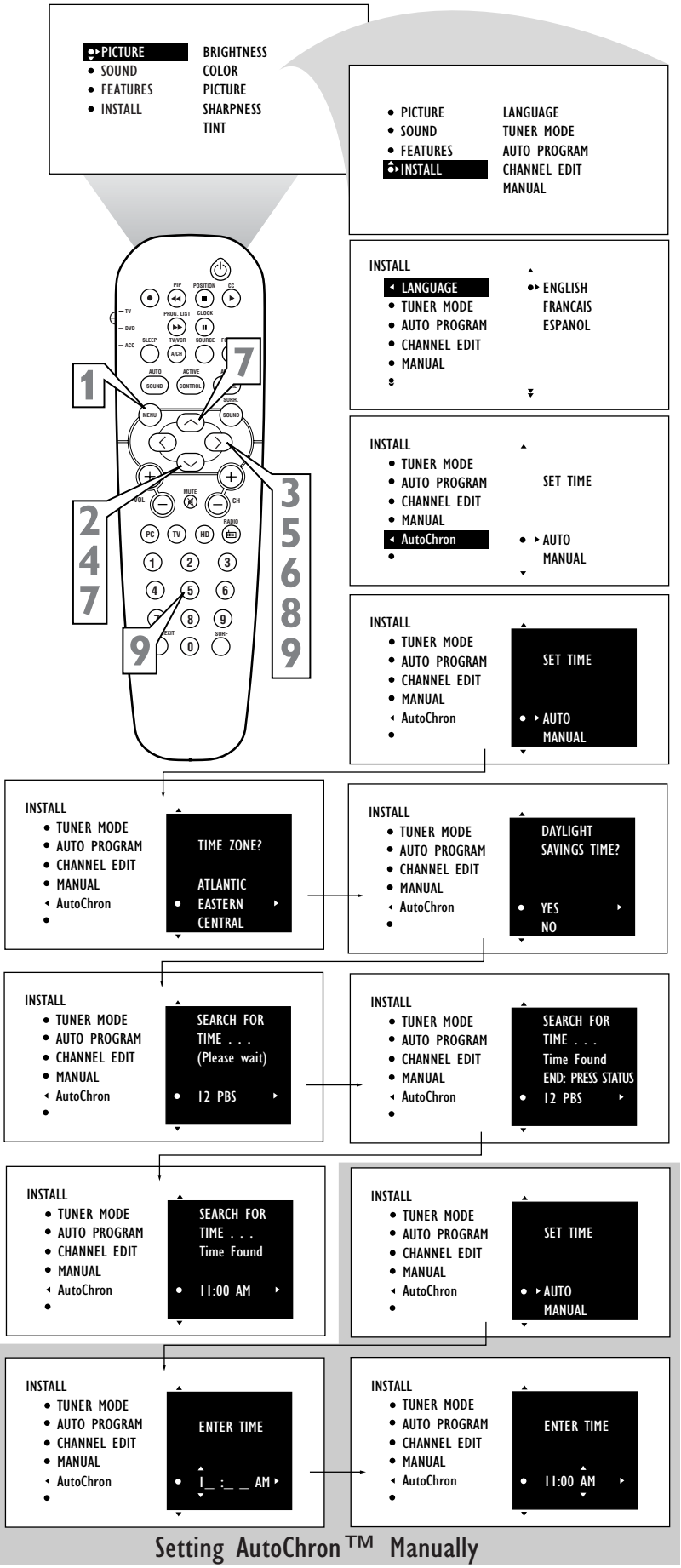
# How to Use the AutoChron™ Control

*AutoChron™ can automatically set the TV's onscreen clock. Because the time is received from a broadcast signal, you must be sure that a cable TV or antenna signal is present before you attempt to use the AutoChron™ feature.*

1. **Press the MENU button** on the remote to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.
4. **Press the CURSOR DOWN button** until the AutoChron control is highlighted.
5. **Press the CURSOR RIGHT button** to start the AutoChron™ feature. Then just follow the onscreen instructions to set the clock.
6. **Press the CURSOR RIGHT button** to select AUTO. Within a few seconds, a menu for choosing your time zone will appear.
7. **Press the CURSOR UP or CURSOR DOWN button** to highlight your correct time zone.
8. **With your correct time zone highlighted, press the CURSOR RIGHT button.** Within a few seconds, you will be given the option to choose whether you want to select Daylight Savings Time. If your time zone uses Daylight Savings, select YES.
9. **Enter your local PBS channel** or any local channel that transmit the current time, and **press the CURSOR RIGHT button** to start the searching process. If the AutoChron™ features finds the current time you are done. If it doenot find the current time, re-enter an other channel and search again.

## *Helpful Hint*

When turned ON, the AutoChron™ feature can affect the start up of your television. When the power button is press and the AutoChron™ feature is set to the AUTO position, the TV will scan the channels for a PBS channel to set the clock automatically. It may take SEVERAL seconds before the TV powers itself ON.




Setting AutoChron™ Manually

# How to Use the Name Control (Channel Label)

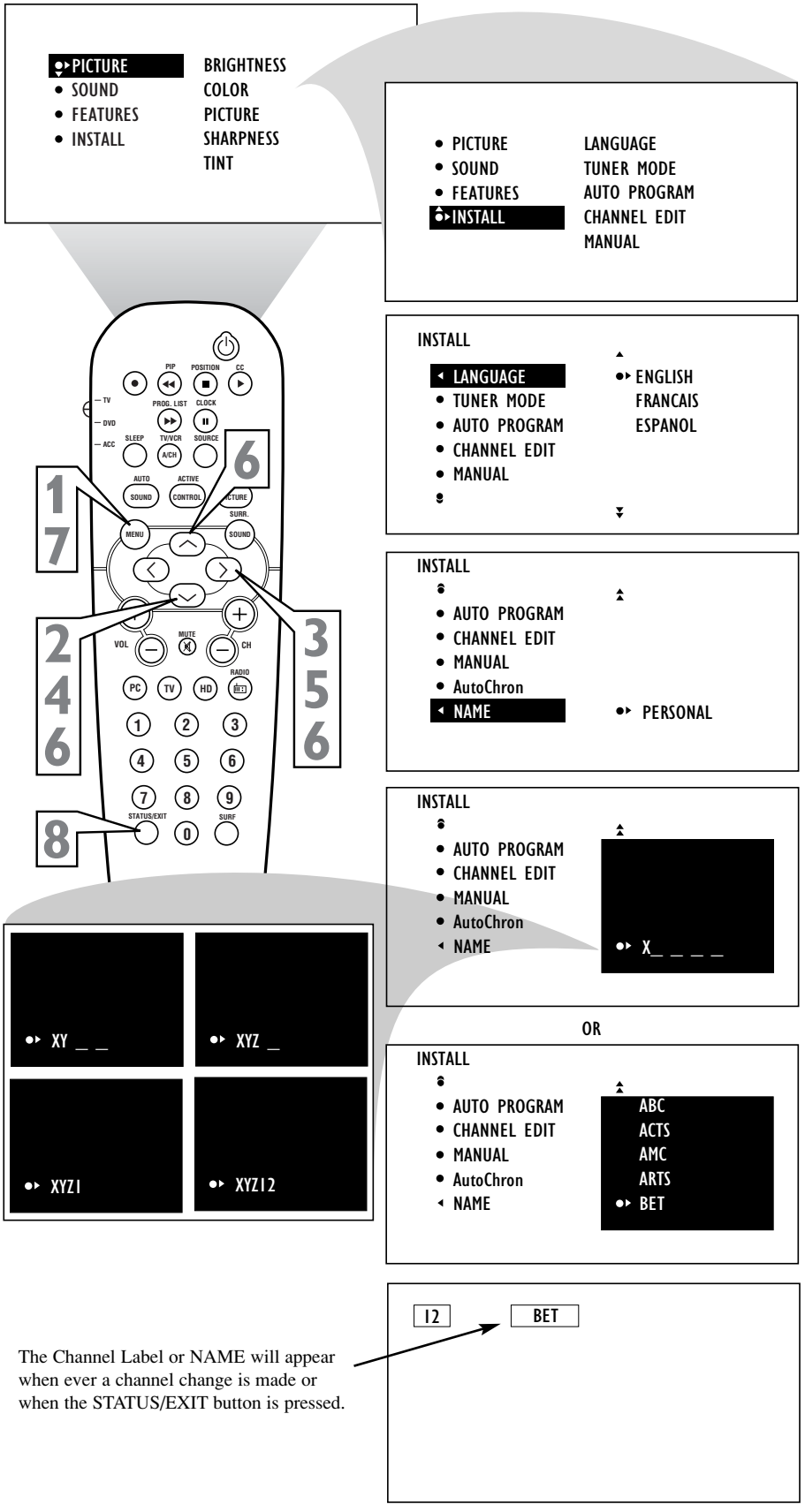
*The channel NAME feature allows you to list the "call" letters of your favorite stations beside their channel numbers when they appear on the screen. The TV has in memory a list of the 50 most popular channel names (for example, ABC, NBC, FOX, etc.). You also can enter a custom name (up to five characters).*

**Tune to a specific channel that you want to add a label to, then;**

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until INSTALL in highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.
4. **Press the CURSOR DOWN button** repeatedly until the NAME control is highlighted.
5. **Press the CURSOR RIGHT button** to highlight the NAME options area.
6. **Press the CURSOR RIGHT button again**; then **press the CURSOR UP or CURSOR DOWN button** to scroll through a list of options for the first character (A through Z, 0 through 9). **Press the CURSOR RIGHT button** and repeat for the second, third, fourth, and fifth characters
7. After you have selected a name for the channel, **press the MENU button** to save the name in the TV's memory.
8. **Press the STATUS/EXIT button** to clear the menu from the screen.

## *Helpful Hint*

The five characters that the channel NAME feature allows you to input can be letters, a dash character, or the numbers 0 through 9.



# How to Use the Picture Adjustment Controls

*To adjust your TV picture controls, select a channel and follow these steps.*

**1** **Press the MENU button** on the remote control to show the onscreen menu. PICTURE will be highlighted.

**2** **Press the CURSOR RIGHT** and the menu will shift to the left. BRIGHTNESS will be highlighted and an adjustment bar will be shown to the right.

**3** **Use the CURSOR LEFT or RIGHT** to adjust the BRIGHTNESS level of the picture.

**4** After adjusting the BRIGHTNESS control, **press the CURSOR DOWN** to select another picture adjustment: COLOR, PICTURE, SHARPNESS, TINT, COLOR TEMP, DNR, or CONTRAST +. **Press the CURSOR LEFT or RIGHT** to adjust the selected control.

**NOTE:** The menu will show only five items at a time, so you will need to continue scrolling with the CURSOR DOWN to adjust the TINT, COLOR TEMP, DNR, or CONTRAST +.

**5** **Press the STATUS/EXIT button** to remove the menu from the screen.

## *Helpful Hint*

Remember, when the bar scale is centered , the control settings are at normal, mid-range levels. Picture adjustments are described here.

**NOTE:** The SHARPNESS and TINT Controls will not be available for adjustments when tuned to the CVI Inputs (CVI Channel).

**BRIGHTNESS** – adds or subtracts light from the darkest part of the picture.

**COLOR** – adds or eliminates color.

**PICTURE** – improves the detail of the lightest parts of the picture.

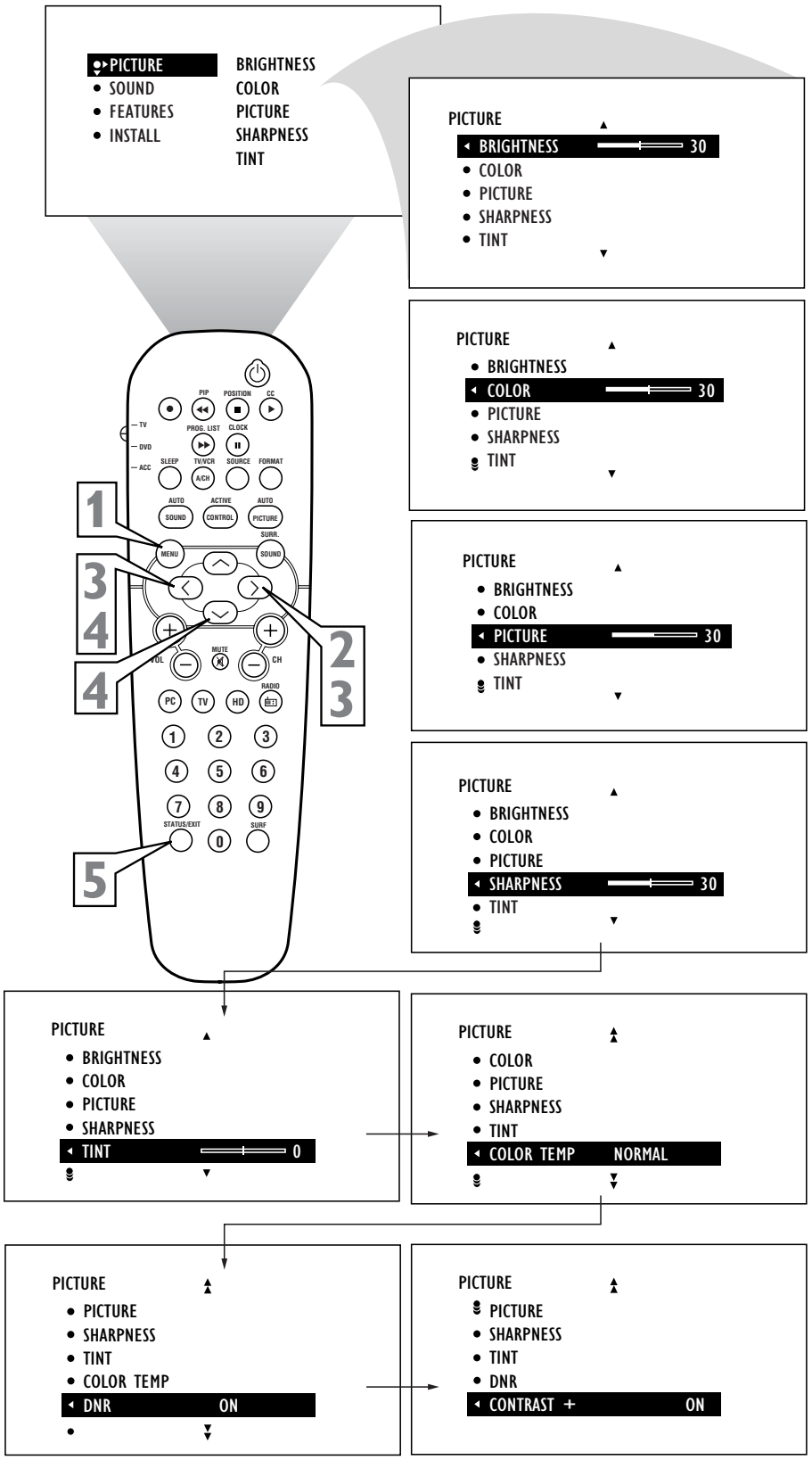
**SHARPNESS** – improves the detail in the picture.

**TINT** – adjusts the picture to obtain natural skin tones.

**COLOR TEMP** – offers NORMAL (keeps whites, white), COOL (makes whites, bluish), or WARM (makes whites, reddish) picture preferences.

**DNR** – can help eliminate slightly "speckled" picture (an indication of signal noise in the picture).

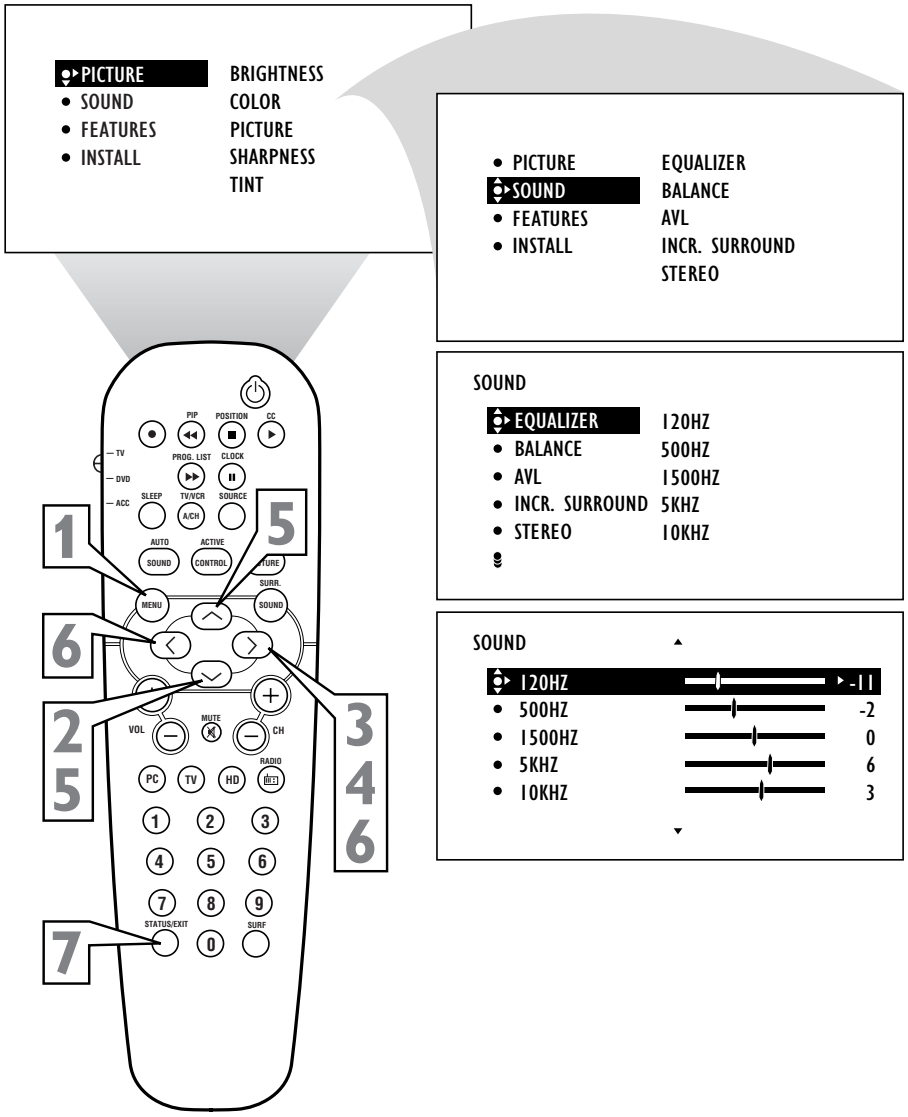
**CONTRAST +** – helps to "sharpen" the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.



# How to Use the Equalizer Controls

*The Equalizer Controls allow you to adjust the sound frequencies to suit the type of programming be watched.*

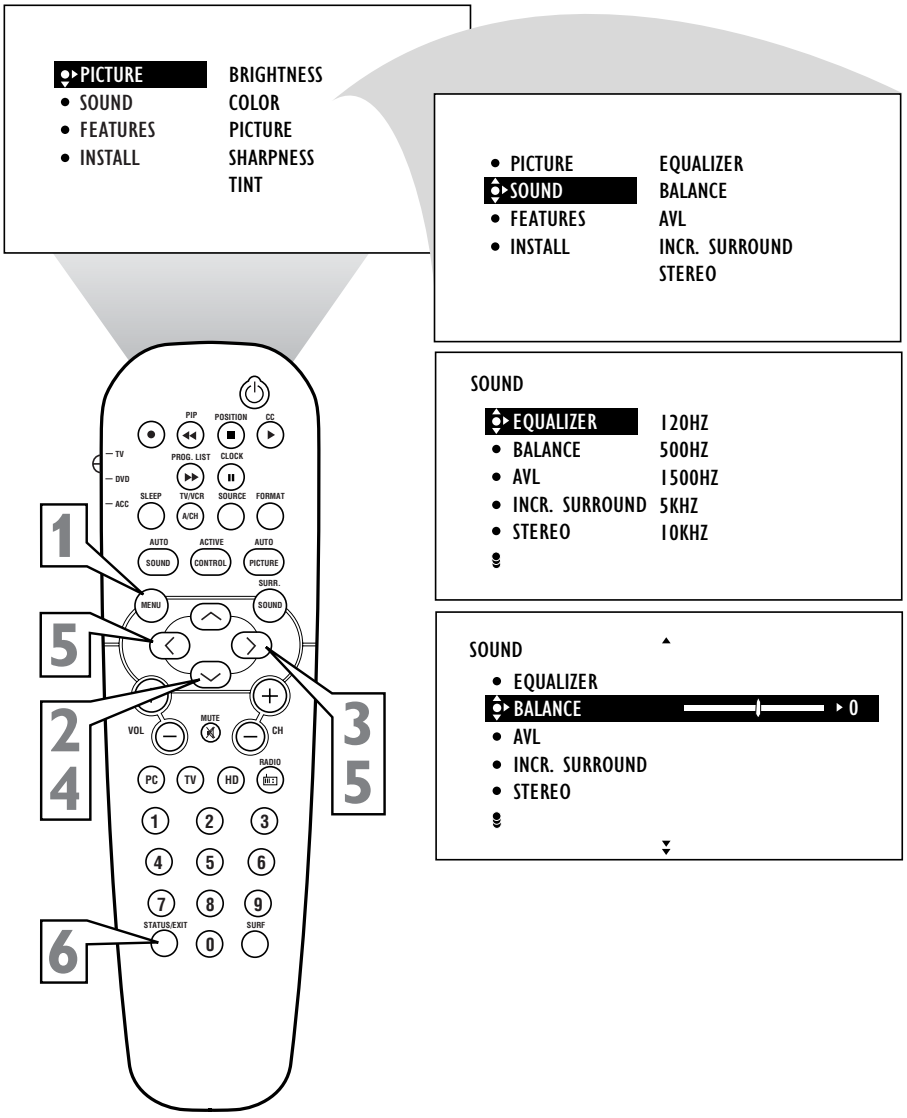
1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until SOUND in highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. EQUALIZER will be highlighted.
4. **Press the CURSOR RIGHT button** to highlight the EQUALIZER options area.
5. **Press the CURSOR UP or DOWN buttons** to highlight any of the frequency options.
6. **Press the CURSOR RIGHT or LEFT buttons** to adjust the control slider to the level desired.
7. Once all the Equalizer controls have been set, **press the STATUS/EXIT button** to clear the menu from the screen.



# How to Use the Balance Control

*The Balance Control will allow you to adjust the sound levels between the right and left speaker output.*

1. **Press the MENU button** on the remote control to show the onscreen menu. PICTURE will be highlighted.
2. **Press the CURSOR DOWN button** repeatedly until SOUND in highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. EQUALIZER will be highlighted.
4. **Press the CURSOR DOWN** to highlight the BALANCE control.
5. **Press CURSOR RIGHT or LEFT buttons** to adjust the sound between the right and left speakers.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.



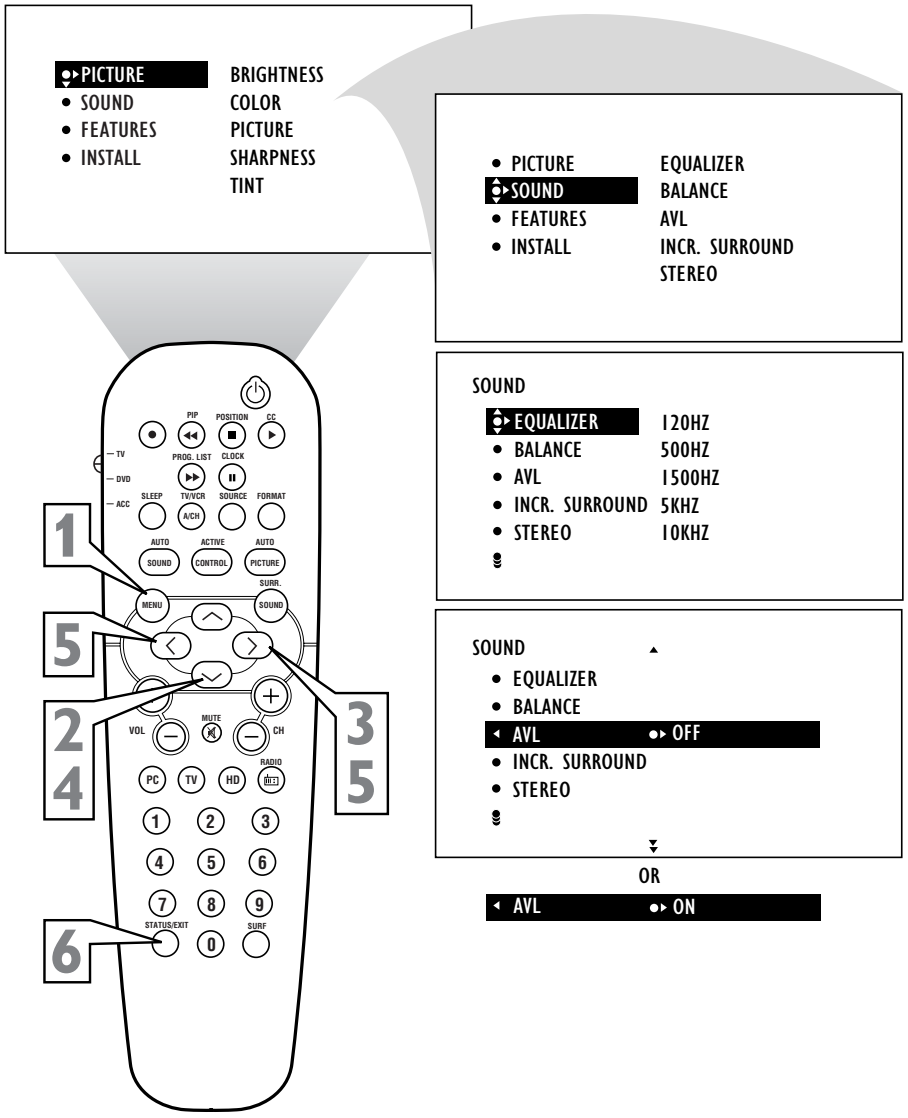

## *Helpful Hint*

When the Balance Control slider is at a setting of "0", both left and right speakers should have equal sound level between them.

# How to Use the AVL Control

*In most cases, the volume levels coming from broadcast programming or commercials are never the same. With the AVL (Audio Volume Leveler) control turned ON, you can have the TV level out sound that is being heard. This makes for a more consistent sound by reducing the peaks and valleys that occur during program changes or commercial breaks. To turn the AVL ON, follow these steps.*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN** to highlight SOUND.
3. **Press the CURSOR RIGHT** and the menu will shift to the left. EQUALIZER will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN** repeatedly until AVL is highlighted.
5. **Press the CURSOR RIGHT or LEFT** to toggle AVL ON or OFF.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.



# How to Use the Incredible Surround Control

*The Incredible Surround feature adds greater depth and dimension to both monaural (MONO) and stereo TV sound. With the control set to INCR. SURROUND (Incredible Surround), the TV's speakers can add even wider sound separation to normal broadcasts.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN** to highlight SOUND.

**3** **Press the CURSOR RIGHT** and the menu will shift to the left. EQUALIZER will be highlighted and an adjustment bar will be shown to the right.

**4** **Press the CURSOR DOWN** repeatedly until INCR. SURROUND is highlighted. (Incredible Surround)

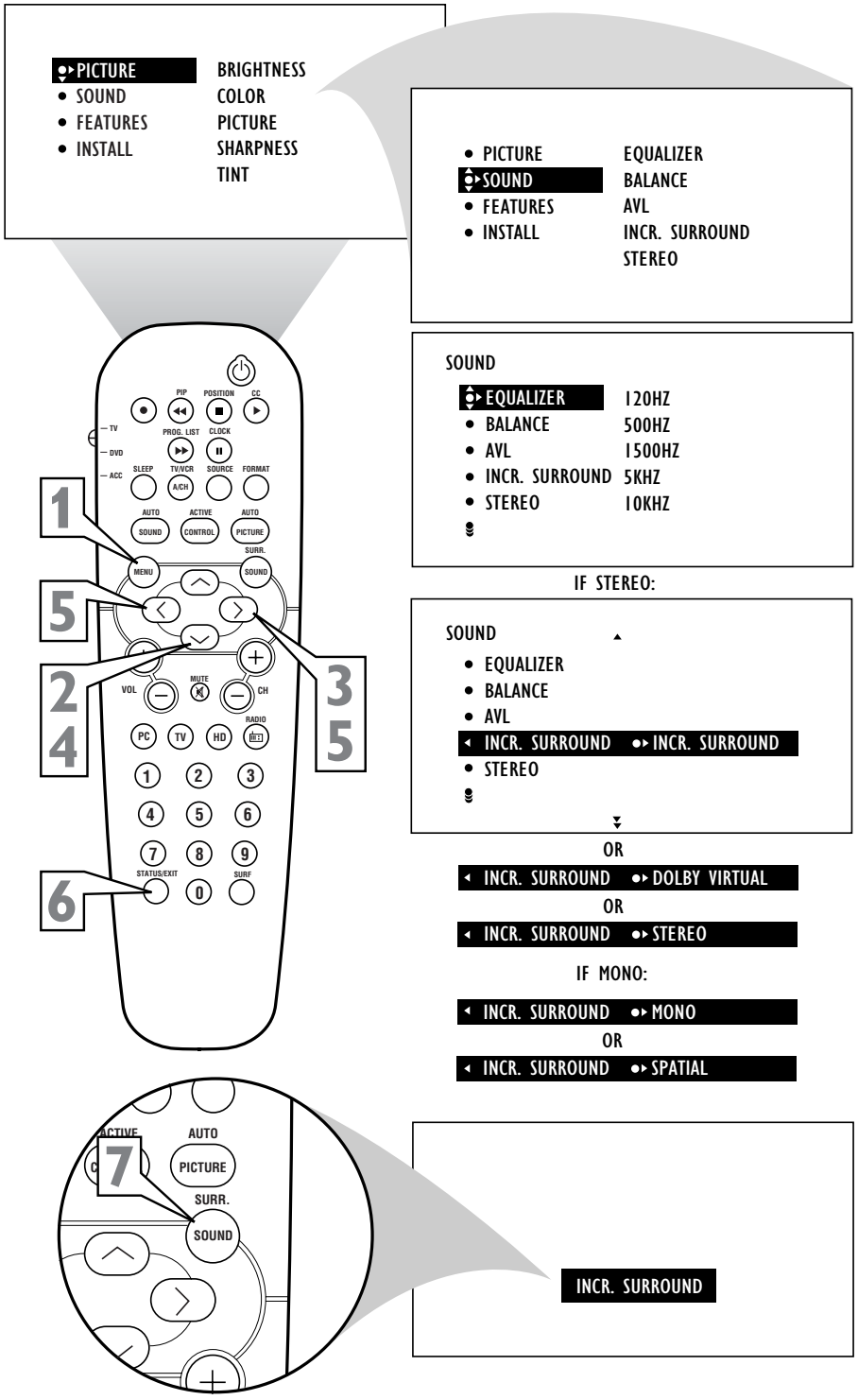
**5** **Press the CURSOR RIGHT or LEFT** to toggle the INCR. SURROUND control settings.

**If signal is Stereo:** Select STEREO, or INCR. SURROUND.

**If signal is MONO:** Select MONO, or SPATIAL.

**6** **Press the STATUS/EXIT button** to remove the menu from the screen.

**7** You can also change the INCR. SURROUND onscreen menu control settings by **pressing the SURR. (surround) SOUND button** on the remote control.




## *Helpful Hint*

**SPATIAL** – widens the sound, simulating a broader, fuller sound.

**INCR. SURROUND** – widens the sound, simulating a broader, fuller sound.

**DOLBY* VIRTUAL (with Virtual Dolby Surround signals)** simulates the surround-sound experience from two speakers using Dolby Pro Logic* providing the listener with the sensation of being surrounded by additional speakers.

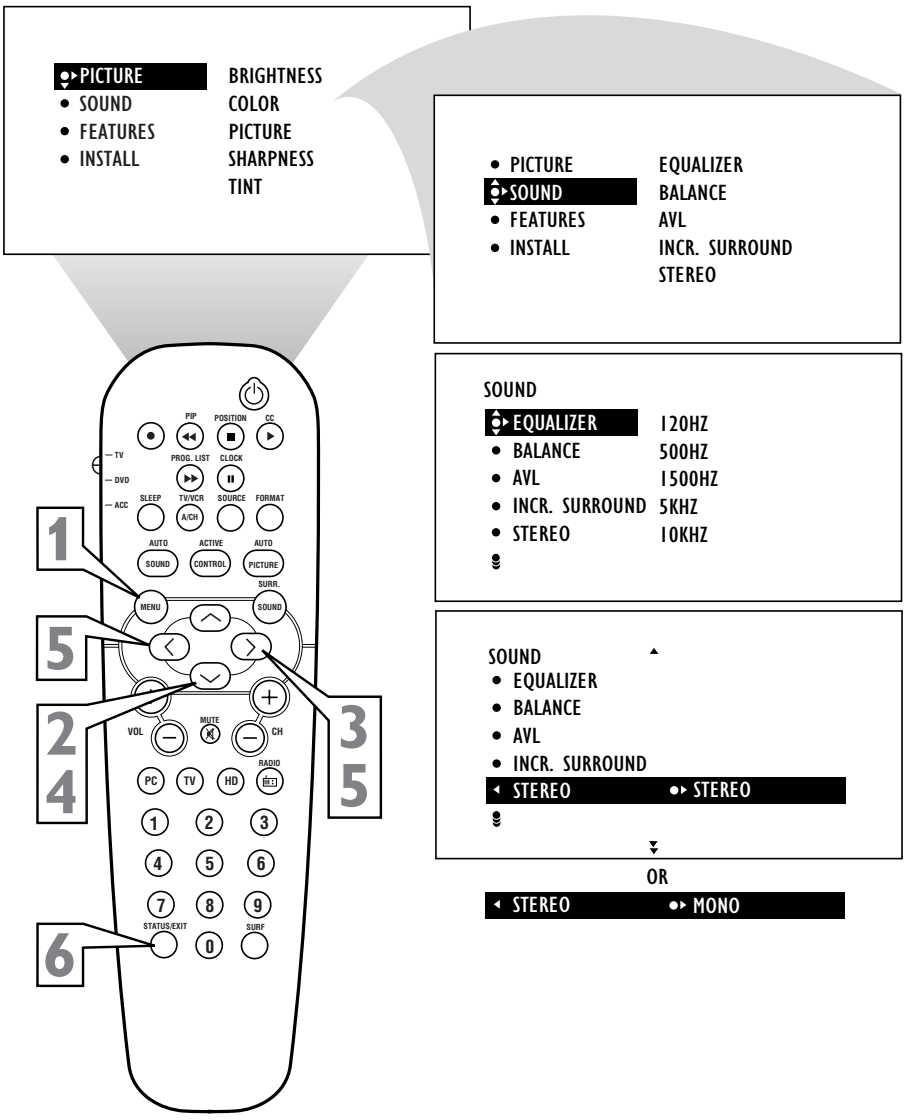
# How to Set the TV to Receive Stereo Programming

*You can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN** to highlight SOUND.
3. **Press the CURSOR RIGHT** and the menu will shift to the left. EQUALIZER will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN** repeatedly until STEREO is highlighted.
5. **Press the CURSOR RIGHT or LEFT** to toggle the STEREO control to Stereo or Mono.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

## *Helpful Hint*

Remember, if stereo is not present on a selected show and the TV is placed in the STEREO mode, the sound coming from the set will remain monaural.



# How to Set the TV to Receive SAP (Secondary Audio Programming)

*SAP is an additional part of the stereo broadcast system. Sent as a third audio channel, an SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN** to highlight SOUND.

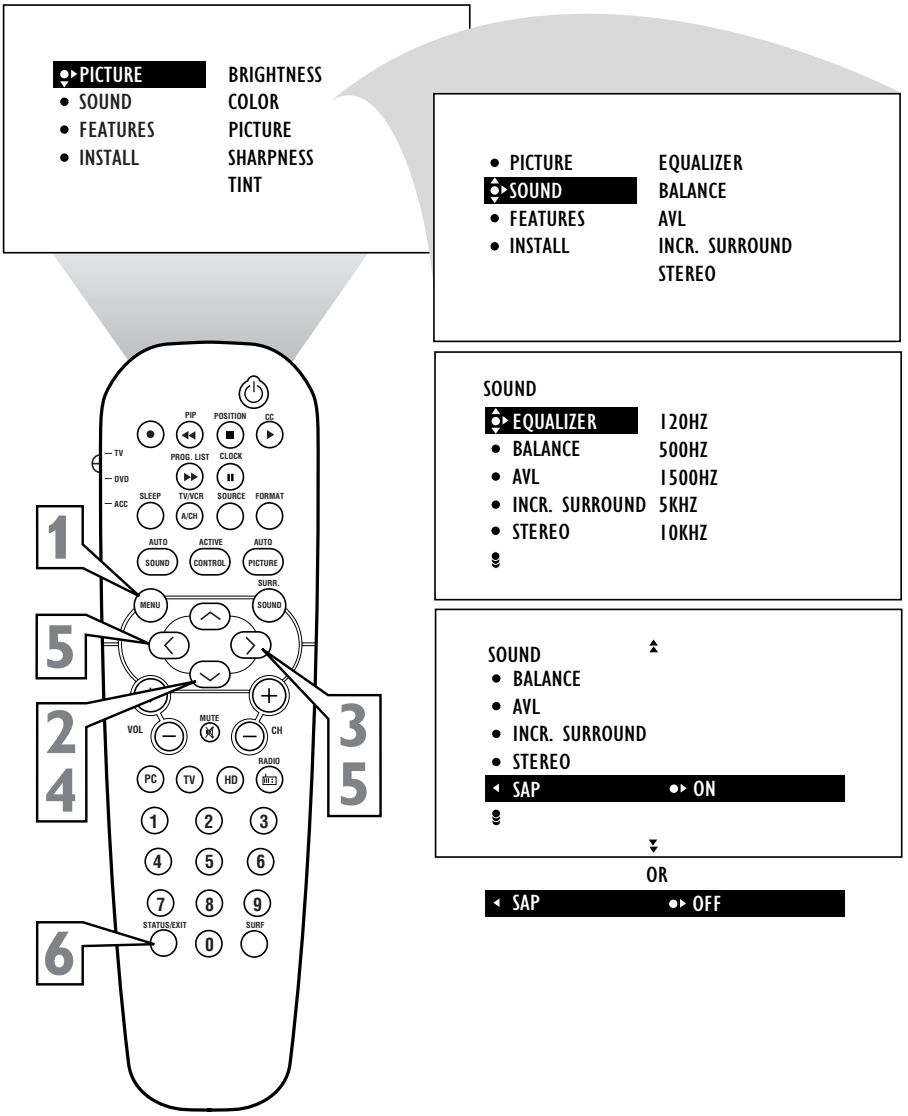
**3** **Press the CURSOR RIGHT** and the menu will shift to the left. EQUALIZER will be highlighted and an adjustment bar will be shown to the right.

**4** **Press the CURSOR DOWN** repeatedly until SAP is highlighted.

**5** **Press the CURSOR RIGHT or LEFT** to toggle the SAP control to On or Off.

**Note:** If SAP is not broadcasted on the selected program your watching, NOT AVAILABLE will appear in the onscreen menu option.

**6** **Press the STATUS/EXIT button** to remove the menu from the screen.



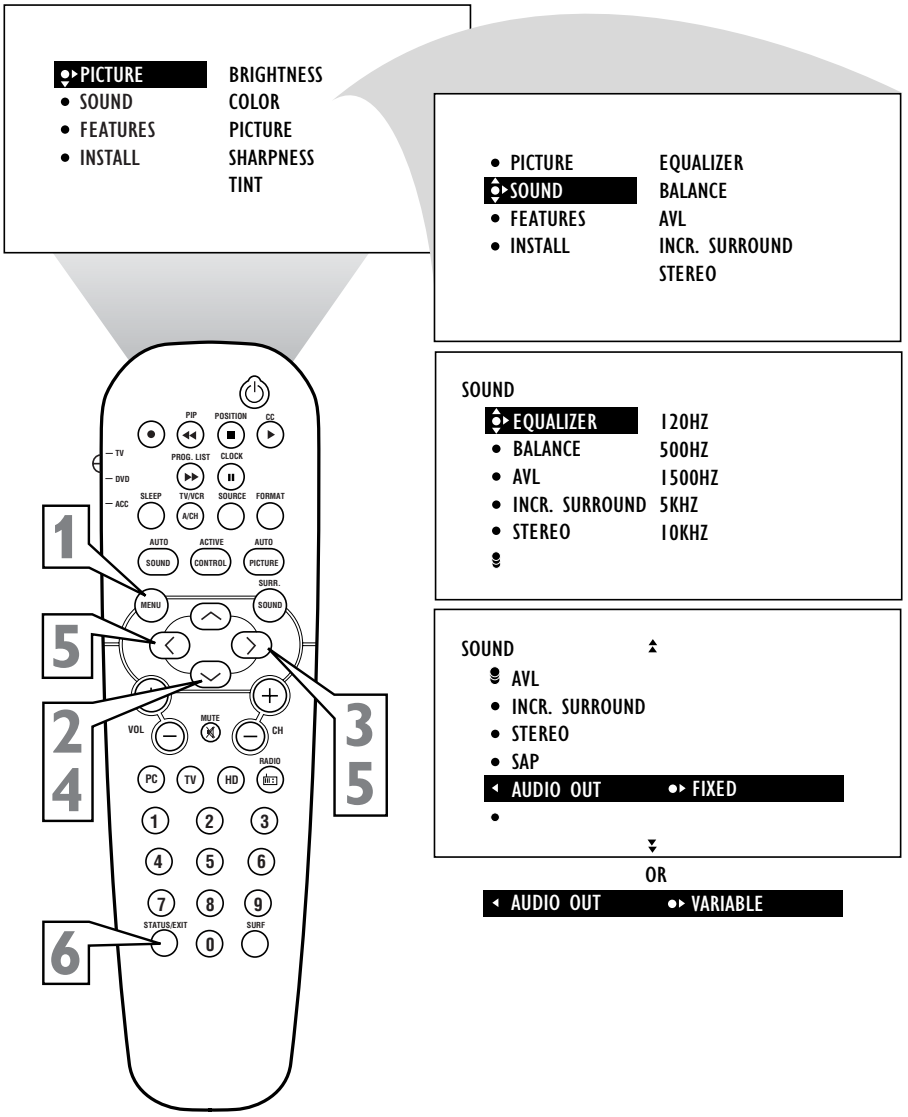

## *Helpful Hint*

If an SAP signal is not present with a selected program, the SAP option cannot be selected. Also, if SAP is selected on a channel (with SAP) and you select another channel, when you return to the original channel, SAP will be OFF. You will have to reselect the SAP feature.

# How to Use the Audio Out Control

*If you have connected the TV's AUDIO OUTPUT jacks to the AUDIO INPUT jacks on a stereo receiver (see the Quick Use Guide for connection instructions), set AUDIO OUT to either VARIABLE or FIXED to determine whether you adjust the volume at the stereo or at the TV. If you select VARIABLE, change the volume at the TV using the TV's remote control. If you select FIXED, adjust the volume at the stereo using the stereo's controls. To select FIXED or VARIABLE, follow these steps.*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN** to highlight SOUND.
3. **Press the CURSOR RIGHT** and the menu will shift to the left. EQUALIZER will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN** repeatedly until AUDIO OUT is highlighted.
5. **Press the CURSOR RIGHT or LEFT** to toggle the AUDIO OUT control to Fixed or Variable.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.




## *Helpful Hint*

**FIXED** – If FIXED is selected, the sound coming from the TV and being heard through an external audio system is not adjustable with the television's volume controls. The volume would have to be adjusted at the audio system.

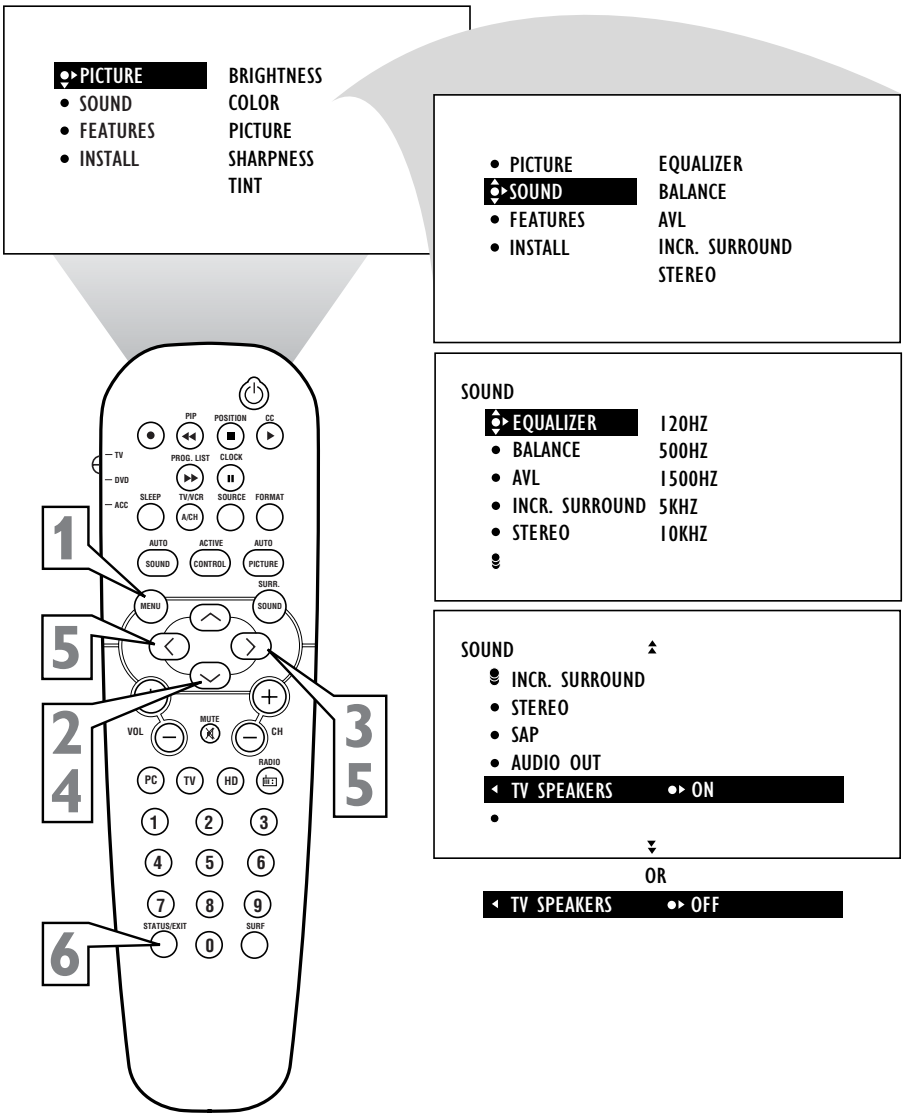
**VARIABLE** – If VARIABLE is selected, the sound coming from the TV and being heard through an external audio system can be adjusted at the TV using the Volume + or – buttons on the television or remote control.

The connection instructions for an external audio system can be found in the Quick Use Guide supplied with your TV.

# How to Turn the TV Speakers On or Off

*Using the TV's Audio (Monitor) Output jacks or the External Speaker connections, the TV speakers can be turned off allowing the television sound to be heard only from the external audio system or the external speakers.*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN** to highlight SOUND.
3. **Press the CURSOR RIGHT** and the menu will shift to the left. EQUALIZER will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN** repeatedly until TV SPEAKERS is highlighted.
5. **Press the CURSOR RIGHT or LEFT** to toggle the TV SPEAKERS On or Off.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.




## *Helpful Hint*

Be sure to first refer to the Quick Use Guide supplied with your TV to connect an external audio system to the television's Monitor Output (audio) jacks.

# How to Use the Timer Controls

*Your television comes with an on-screen clock. The TV also can be set to turn on or off at a specific time and tune to a specific channel when it powers its self on.*

**1** **Press the CLOCK button** on the remote control to show the TIMER onscreen menu.

**2** **Press the CURSOR RIGHT button** and the TIMER options will shift to the left. TIME will be highlighted.

**3** **Press the CURSOR UP or DOWN buttons** repeatedly to highlight one of the TIMER controls. These controls are the TIME, START TIME, STOP TIME, CHANNEL, ACTIVATE, or DISPLAY.

**4** **Press the CURSOR RIGHT or LEFT button** to make adjustments or set the control options.

**TIME:** Enter the current time with the numbered buttons. Use the Cursor Right button to move to the AM/PM area and use the Cursor Left and Right buttons to toggle AM or PM.

**START TIME:** Use the Numbered buttons to enter a start-up time for the TV to turn on or tune a specific channel.

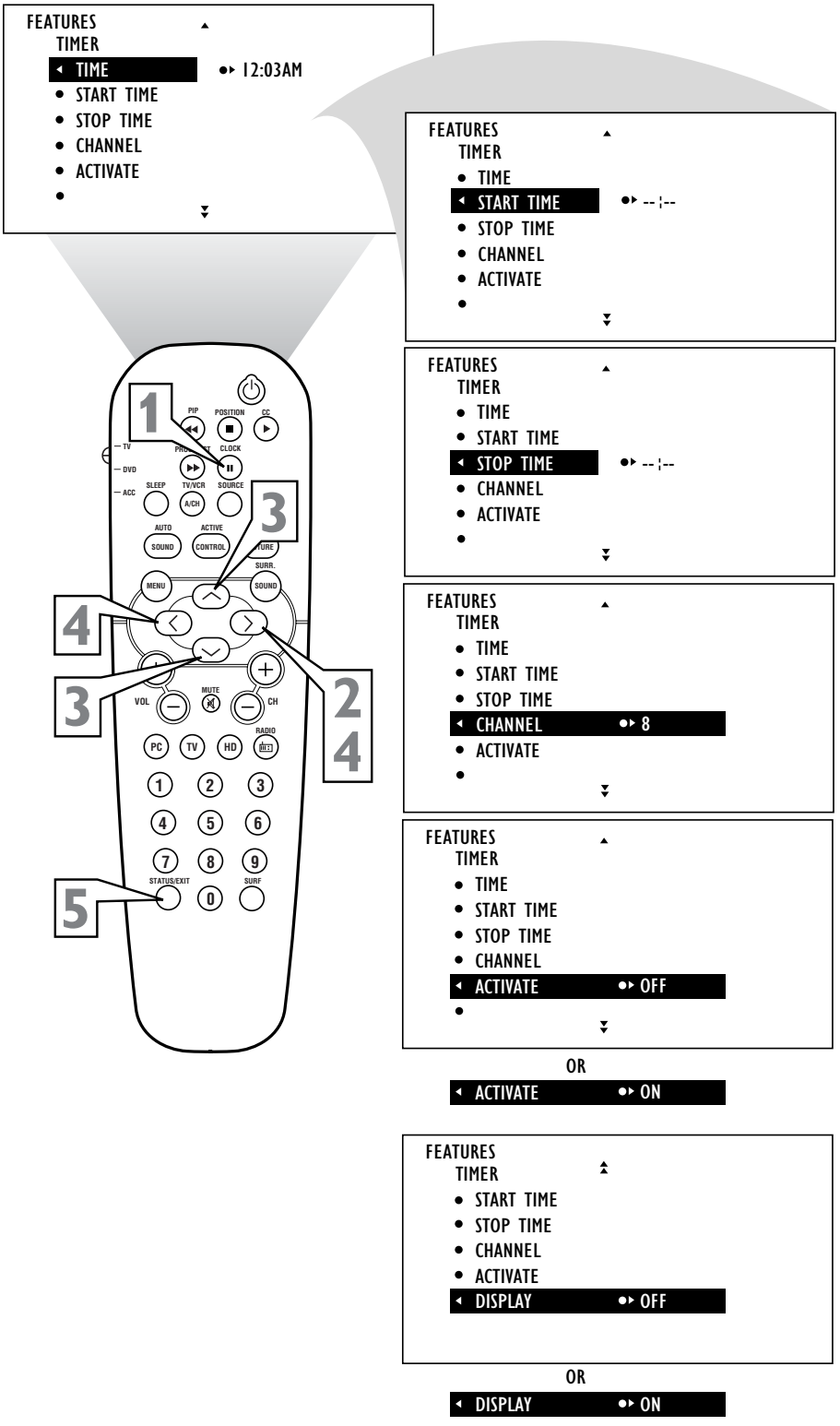
**STOP TIME:** Use the Numbered buttons to enter a time for the TV to shut itself off.

**CHANNEL:** Use the Numbered buttons or the CH + or – buttons to select a specific channel for the TV to tune to at the specific Start Time.

**ACTIVATE:** Set the Timer to preform it's function ONCE or DAILY.

**DISPLAY:** Set to ON or OFF. When ON, the time will be displayed ALL the time the TV is ON. When OFF, the time will only appear when the STATUS/EXIT button is pressed.

**5** **Press the STATUS/EXIT button** to remove the menu from the screen.



# How to Use the Mode Select Control

*The Mode Select Control will allow you to use set the TV into the TV, FM, HD, or PC Modes. Depending on how the TV will be used, these modes may have their own onscreen menus controls to optimize there use when used with computers, radios, or high-definition receivers.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN** to highlight FEATURES.

**3** **Press the CURSOR RIGHT** and the menu will shift to the left. TIMER will be highlighted.

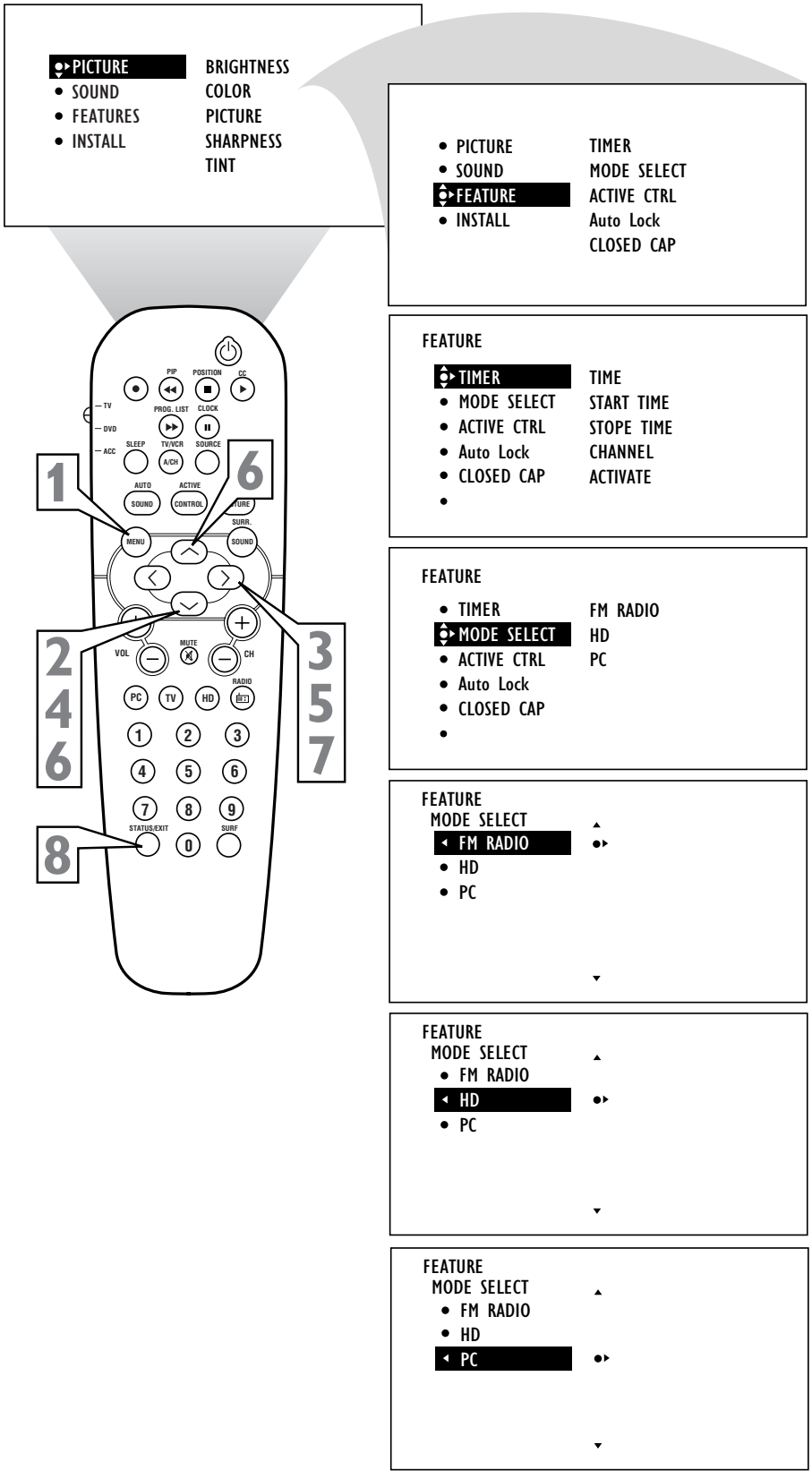
**4** **Press the CURSOR DOWN** repeatedly until MODE SELECT is highlighted.

**5** **Press the CURSOR RIGHT button** to shift the menu to the left. the first option, FM RADIO will be highlighted.

**6** **Press the CURSOR UP or DOWN buttons** to highlight the desired mode option (FM RADIO, HD, or PC).

**7** **Press the CURSOR RIGHT button** to change the TV to the desired mode. *Please refer to each specific mode later in this manual.*

**8** **Press the STATUS/EXIT button** to remove the menu from the screen.




## *Helpful Hint*

Specific information regarding each of the MODE SELECT options can be found later in this manual.

**FM RADIO** - refer to page 46-49.

**HD** - refer to page 50-53.

**PC** - refer to page 54.

# How to Set the Active Control

*The Active Control monitors and adjusts incoming video signals to help provide the best picture quality.*

*When you choose to turn the Active Control ON, the picture sharpness and noise reduction are controlled automatically. Active Control adjusts these picture settings continuously and automatically.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN** to highlight FEATURES.

**3** **Press the CURSOR RIGHT** and the menu will shift to the left. TIMER will be highlighted.

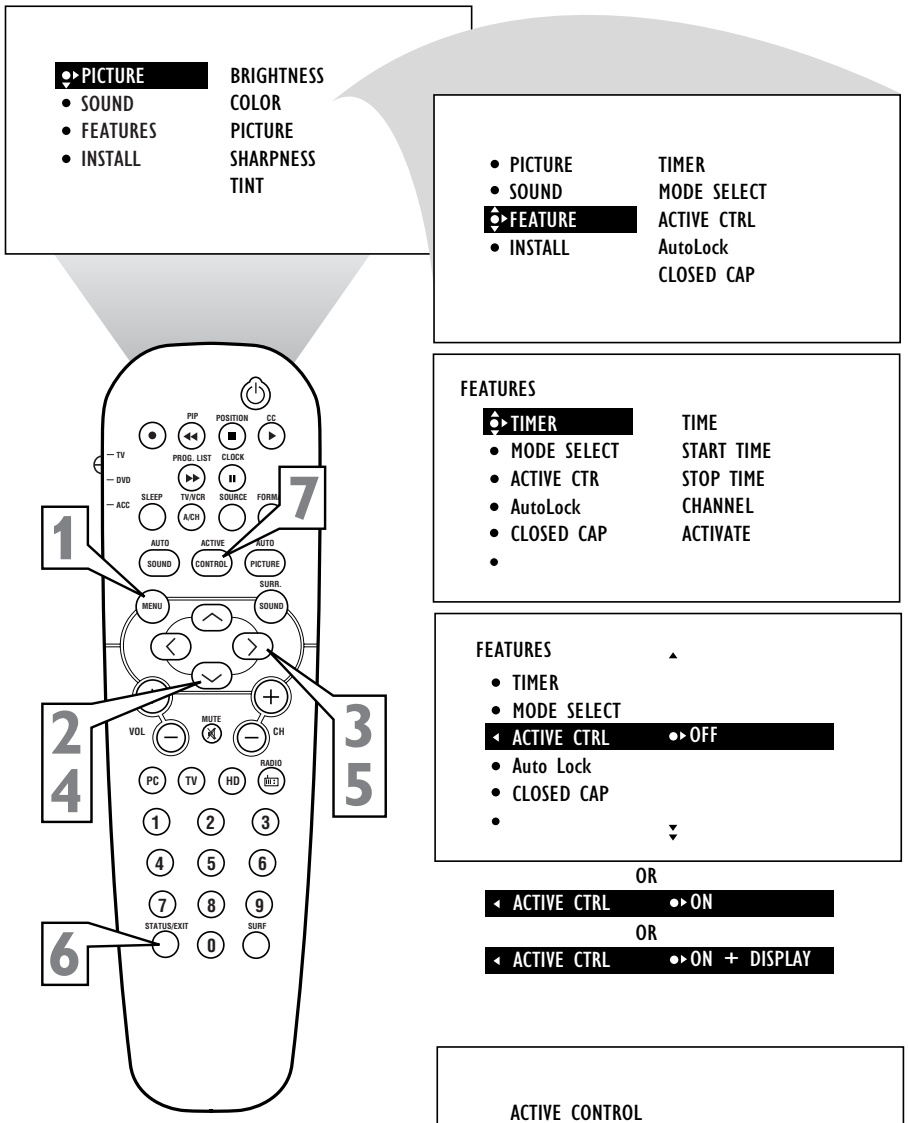
**4** **Press the CURSOR DOWN** repeatedly until ACTIVE CTRL (control) is highlighted.

**5** **Press the CURSOR RIGHT button repeatedly** to toggle the control options. Choose from: ON, ON + DISPLAY, or OFF

**6** **Press the STATUS/EXIT button** to remove the menu from the screen.

---

**7** You can also **press the ACTIVE CONTROL button** on the remote control to toggle the ACTIVE CONTROL ON, ON + DISPLAY, or OFF directly.




When ACTIVE CONTROL is set to ON + DISPLAY, this screen will be displayed briefly whenever a channel change occurs.

## *Helpful Hint*

Toggle the ACTIVE CONTROL to ON + DISPLAY with the remote control and a screen display will appear showing the Active Control in work. You will see the sharpness and noise reduction settings changing to provide the best possible picture quality.

# UNDERSTANDING THE AUTOLOCK™ CONTROLS

*The AutoLock™ feature receives and processes data sent by broadcasters or other program providers that contain program content advisories. When programmed by the viewer, a TV with AutoLock™ can respond to the content advisories and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of programming children may watch.*

In the AutoLock™ section, you'll learn how to block channels and programming that is not rated, is unrated, or has no rating. You will also find out how to turn these blocking features ON or OFF. Following are brief explanations of some terms and ratings related to the AutoLock™ feature.

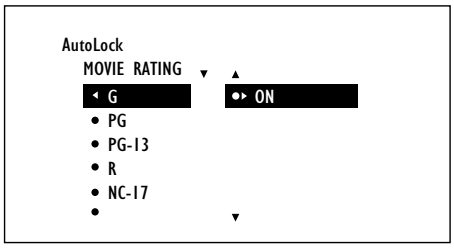
**AutoLock™ offers various Blocking Options from which to choose:**

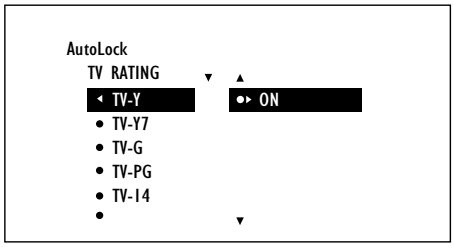
***BLOCKING:*** The BLOCKING control is what can be thought of as the "master switch" for AutoLock™. This control affects the settings you have chosen for blocking programs according to movie ratings or TV ratings, or for blocking programs that have no rating or are unrated. When the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen.

***NO RATING:*** ALL programming with no content advisory data can be blocked if NO RATING is set to ON.

*Programming that has No Rating is not encoded with any rating information from the MPAA or the Parental Guidelines. Any programming could fall into this category.*

**You also can block individual channels or block programming** based on ratings of the MPAA and TV broadcasters. (See a description of the ratings on this page.)




## MOVIE RATINGS
### (MOTION PICTURE ASSOCIATION OF AMERICA)

***G: General Audience*** - All ages admitted. Most parents would find this programming suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

***PG: Parental Guidance Suggested*** - This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.

***PG-13: Parents Strongly Cautioned*** - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.

***R: Restricted*** -This programming is specifically designed for adults. Anyone under the age of 17 should view this programming only with an accompanying parent or adult guardian. It contains one or more of the following: intense violence; intense sexual situations; strong, coarse language; or intensely suggestive dialogue.

***NC-17: No one under the age of 17 will be admitted.*** - This type of programming should be viewed by adults only. It contains graphic violence; explicit sex; or crude, indecent language.

***X: Adults Only*** - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

## TV PARENTAL GUIDELINES
### (TV BROADCASTERS)

TV Y ***TV-Y*****:** (**All children** -- *This program is designed to be appropriate for all children.*) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV Y7 ***TV-Y7***: (**Directed to Older Children** -- *This program is designed for children ages 7 and above.*) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV G ***TV-G*****:** (**General Audience** -- *Most parents would find this program suitable for all ages.*) This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

TV PG ***TV-PG***: (**Parental Guidance Suggested** -- *This program contains material that parents may find unsuitable for younger children.*) This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

TV 14 ***TV-14***: (**Parents Strongly Cautioned** - - *This program contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intense violence (V); intense sexual situations (S); strong, coarse language (L); or intensely suggestive dialogue (D).

TV MA ***TV-MA***: (**Mature Audience Only** -- *This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.*) This type of programming contains one or more of the following: graphic violence (V); explicit sexual situations (S); or crude, indecent language (L).

# SETTING UP THE AUTOLOCK™ ACCESS CODE

*AutoLock™ allows parents to block out or "censor" any channels they think children should not watch. A channel blocked by the AutoLock™ control cannot be viewed until a correct access code is used to unlock the channel for viewing. First, let's set your AutoLock access code.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN button** to highlight FEATURES.

**3** **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.

**4** **Press the CURSOR DOWN button** repeatedly until AutoLock is highlighted.

**5** **Press the CURSOR RIGHT button** to highlight **ACCESS CODE.**

**6** **Press 0,7,1,1** on the remote control. *INCORRECT* will appear on the screen.

**7** **Press 0,7,1,1** on the remote control again. ENTER NEW CODE will appear on the screen.

**8** **Enter a new four-digit code** using the number buttons. CONFIRM CODE will appear on the screen.

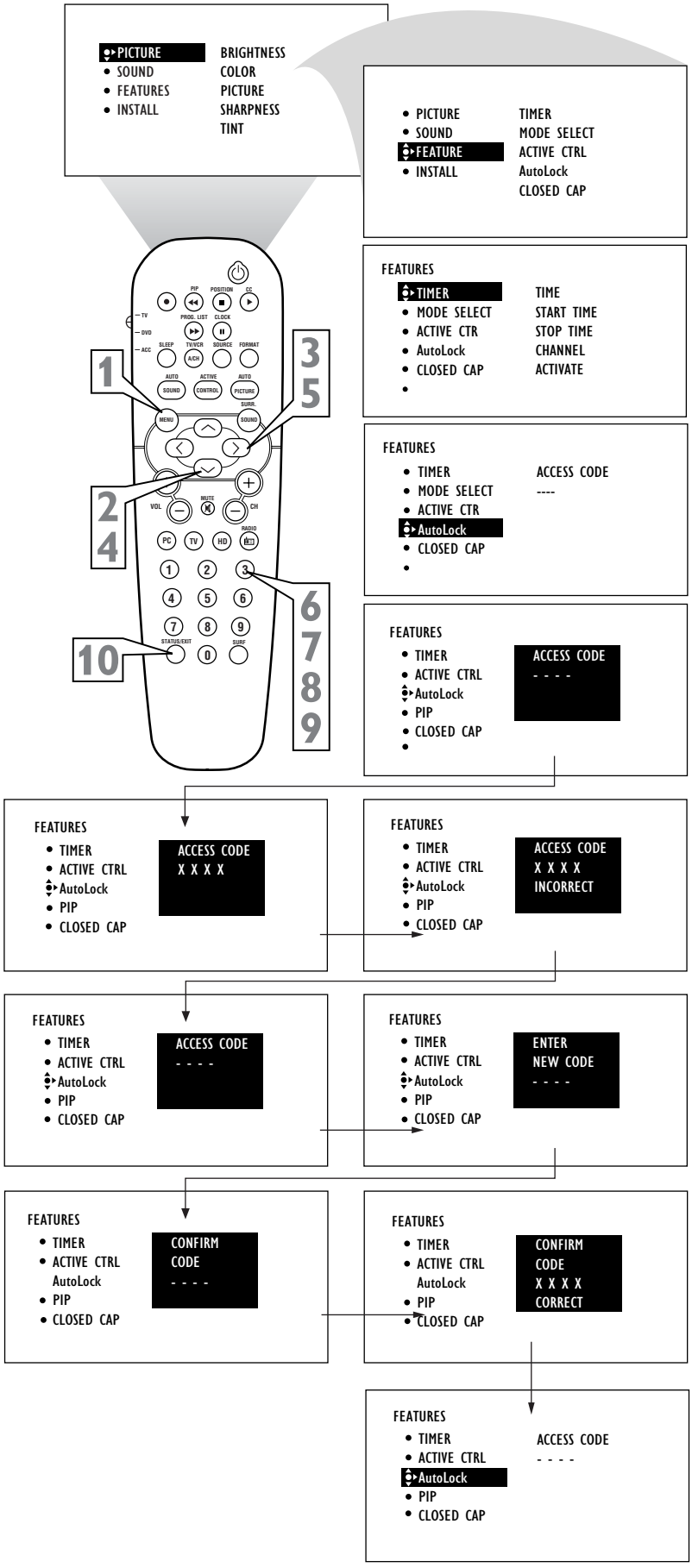
**9** **Enter your new four-digit code** again. *CORRECT* will flash on the screen briefly and the highlight bar goes back to AutoLock.

**10** **Press the STATUS/EXIT button** to remove the menu from the screen.

## *HELPFUL HINT*

Remember that 0711 is the default AutoLock™ code. If your access code has been changed by someone other than you (a child, for example) or you have forgotten the code, you can always get in by inputting the default code.

**NOTE TO PARENTS:** It isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code has been changed without your knowledge, then you will become aware that blocked channels may have been viewed.



# How to Block Channels Using AutoLock™

*After your personal access code has been set (see the previous page), you are ready to select the channels or inputs you want to block out or censor.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN button** to highlight FEATURES.

**3** **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.

**4** **Press the CURSOR DOWN button** repeatedly until AutoLock is highlighted.

**5** **Press the CURSOR RIGHT button** to highlight **ACCESS CODE.**

**6** **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.

**7** **Press the CURSOR RIGHT button** to highlight the TV's available channels.

**8** **Press the CURSOR UP or DOWN button** to highlight the channel you want to block.

**9** **Press the CURSOR RIGHT button** to block the channel. A padlock image appears to the right of the channel number.

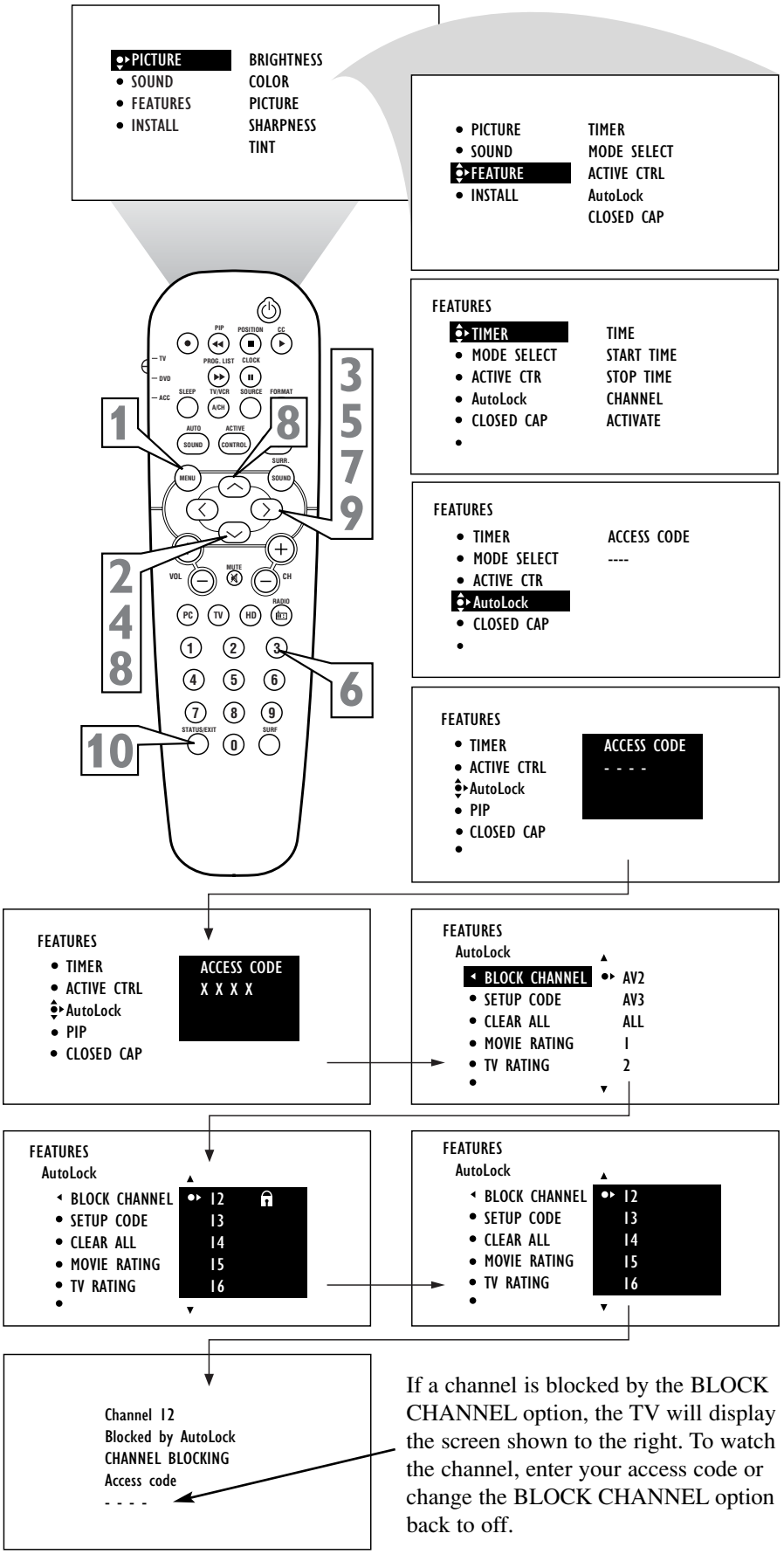
Repeat steps 7 and 8 for any channels you want to block from viewing.

**10** **Press the STATUS/EXIT button** to remove the menu from the screen.

## *Helpful Hint*

Remember that 0711 is the default AutoLock™ code. If your access code has been changed by someone other than you (a child, for example) or you have forgotten the code, you can always get in by inputting the default code.

**NOTE:** You also can block out the use of the A/V external inputs on the rear of the TV. This stops the viewing of VCR, DVD, and other sources that can be shown through the A/V input jacks.




If a channel is blocked by the BLOCK CHANNEL option, the TV will display the screen shown to the right. To watch the channel, enter your access code or change the BLOCK CHANNEL option back to off.

# How to Clear All Blocked Channels at the Same Time

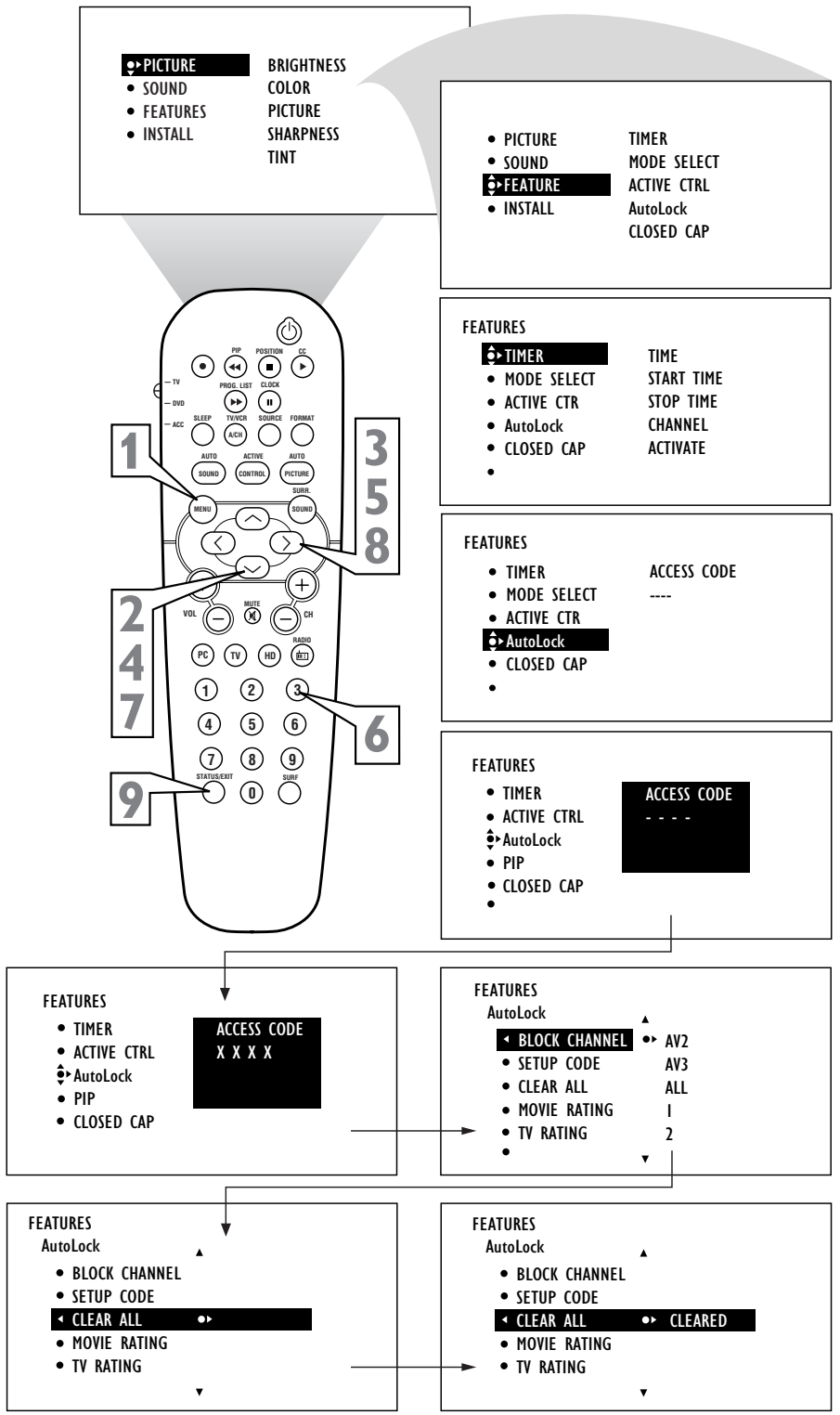
*Various onscreen messages will appear when someone tries to view blocked programming. The message is determined by how the current programming is blocked. You may view the blocked programming and turn OFF the AutoLock™ feature by using the Clear All control or by entering your access code*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **Press the CURSOR DOWN button** repeatedly until AutoLock is highlighted.
5. **Press the CURSOR RIGHT button** to highlight **ACCESS CODE.**
6. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN button** until CLEAR ALL is highlighted.
8. **Press the CURSOR RIGHT** twice. The CLEAR ALL option will display the word *CLEARED*. All blocked channels and programming are now viewable.
9. **Press the STATUS/EXIT button** to remove the menu from the screen.

## *Helpful Hint*

If you tune to a specific channel that has been blocked by BLOCK CHANNEL or any of the AutoLock™ RATING options, simply enter your four-digit access code to view the channel.

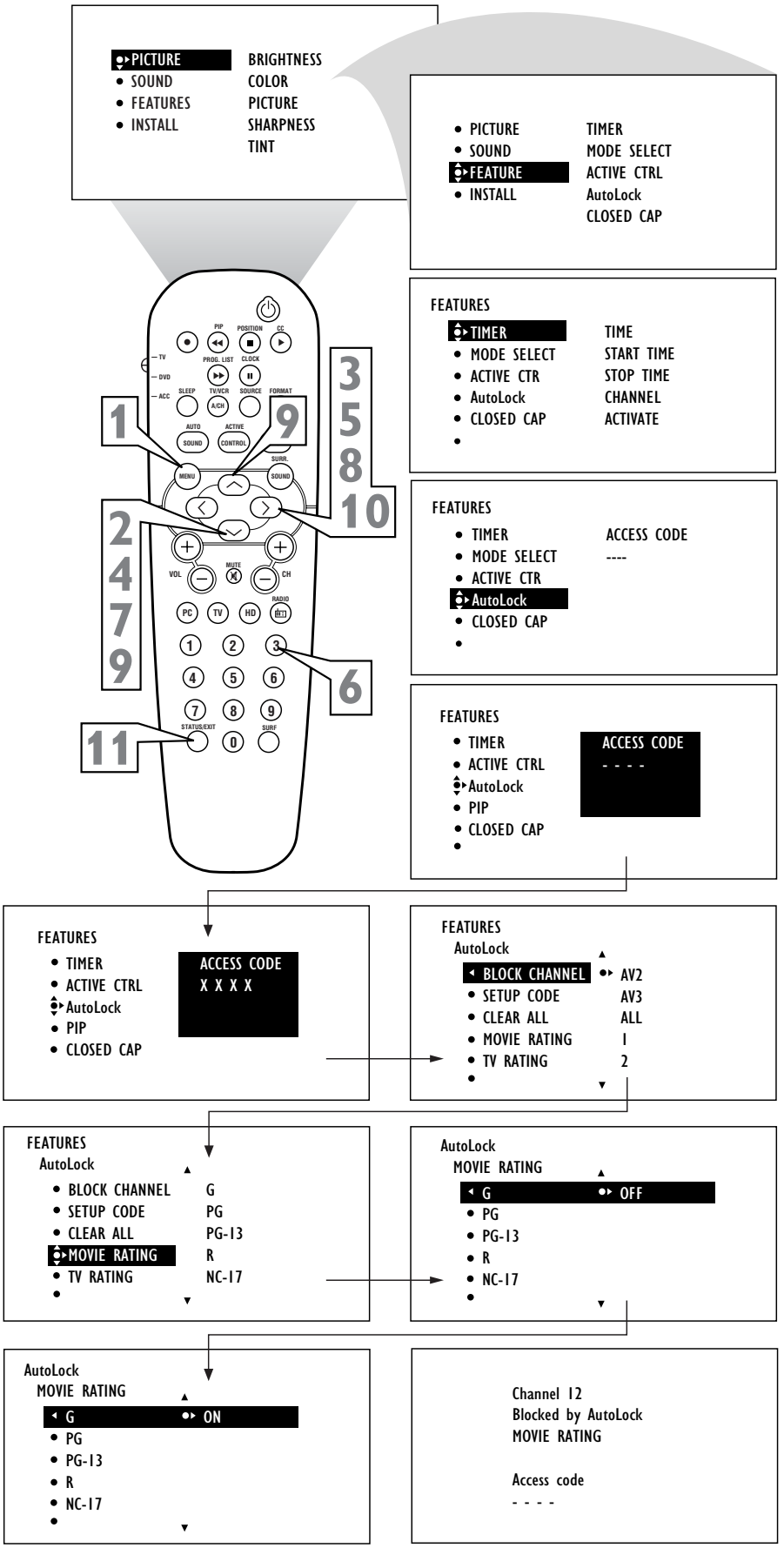
**NOTE:** This will unblock ALL channels until the TV is shut OFF. When powered back ON, all previously blocked channels will be blocked again.



# BLOCKING PROGRAMS BASED ON MOVIE RATINGS

*After your personal access code has been set, you can select specific movie ratings that you want to censor.*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **Press the CURSOR DOWN button** repeatedly until AutoLock is highlighted.
5. **Press the CURSOR RIGHT button** to highlight **ACCESS CODE.**
6. **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN** repeatedly until MOVIE RATING is highlighted.
8. **Press the CURSOR RIGHT** and the Rating menu shifts to the left with *G* highlighted.
9. **Press the CURSOR UP or DOWN** to highlight each rating you want.
10. **Press the CURSOR RIGHT** to turn the rating ON or OFF. Turning the rating ON will block programs with that rating from being seen.
11. **Press the STATUS/EXIT button** to remove the menu from the screen.




## *HELPFUL HINT*

When a rating is turned ON, all higher ratings also will be turned on automatically. For example, if the *R* rating is turned on, the *NC-17* and *X* ratings also will be turned on.

All Movie Ratings can be turned ON or OFF.

Refer to page 23 for Movie Rating definitions.

# BLOCKING PROGRAMS BASED ON TV RATINGS

*You can select specific TV ratings that you want to censor by following these steps.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN button** to highlight FEATURES.

**3** **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.

**4** **Press the CURSOR DOWN button** repeatedly until AutoLock is highlighted.

**5** **Press the CURSOR RIGHT button** to highlight **ACCESS CODE.**

**6** **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.

**7** **Press the CURSOR DOWN** repeatedly until TV RATING is highlighted.

**8** **Press the CURSOR RIGHT** and the menu will shift to highlight the TV RATING options.

**9** **Press the CURSOR UP or DOWN** to select a rating.

**10** **Press the CURSOR RIGHT** to turn the block on the rating ON or OFF.

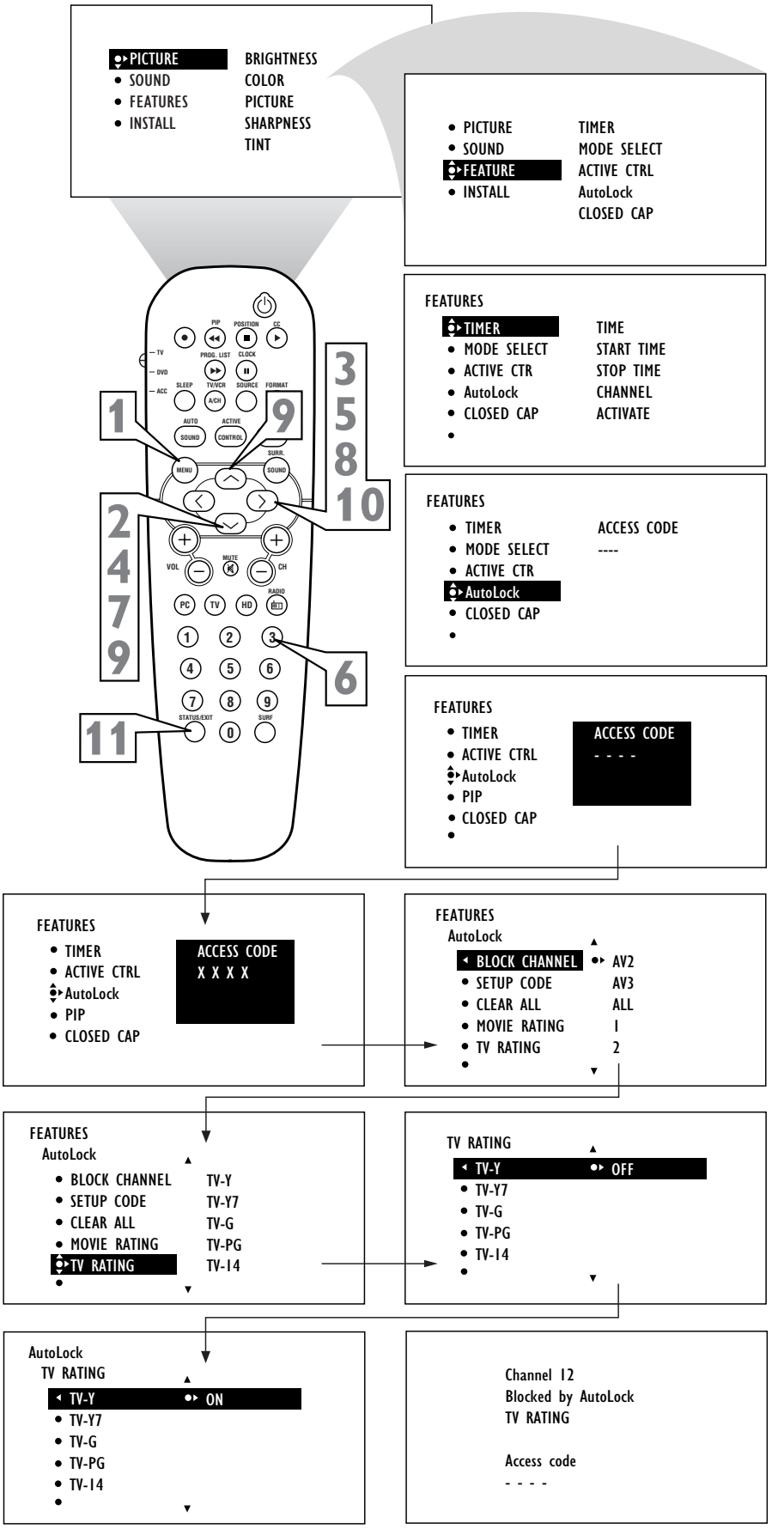
**NOTE:** More specific subratings (for violence, sexual content, dialogue, or fantasy violence) are available for TV-Y7, TV-PG, TV-14, and TV-MA. (Refer to page 31 for definitions.)

To access these subratings, with the main rating selected, **press the CURSOR RIGHT.** Then, repeat steps 9 and 10 to turn the sub-ratings ON or OFF.

**11** **Press the STATUS/EXIT button** to remove the menu from the screen.

## *HELPFUL HINT*

When a rating is turned ON, all higher ratings also will be turned on automatically. For example, if the *R* rating is turned on, the *NC-17* and *X* ratings also will be turned on.



# OTHER AUTOLOCK™ BLOCKING OPTIONS

*The BLOCKING control is what can be thought of as the "master switch" for AutoLock™. This control affects the settings you have chosen for blocking programs according to movie ratings or TV ratings, or for blocking programs that have no rating. When the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen. Follow these steps to toggle BLOCKING OFF or ON.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR DOWN button** to highlight FEATURES.

**3** **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.

**4** **Press the CURSOR DOWN button** repeatedly until AutoLock is highlighted.

**5** **Press the CURSOR RIGHT button** to highlight **ACCESS CODE.**

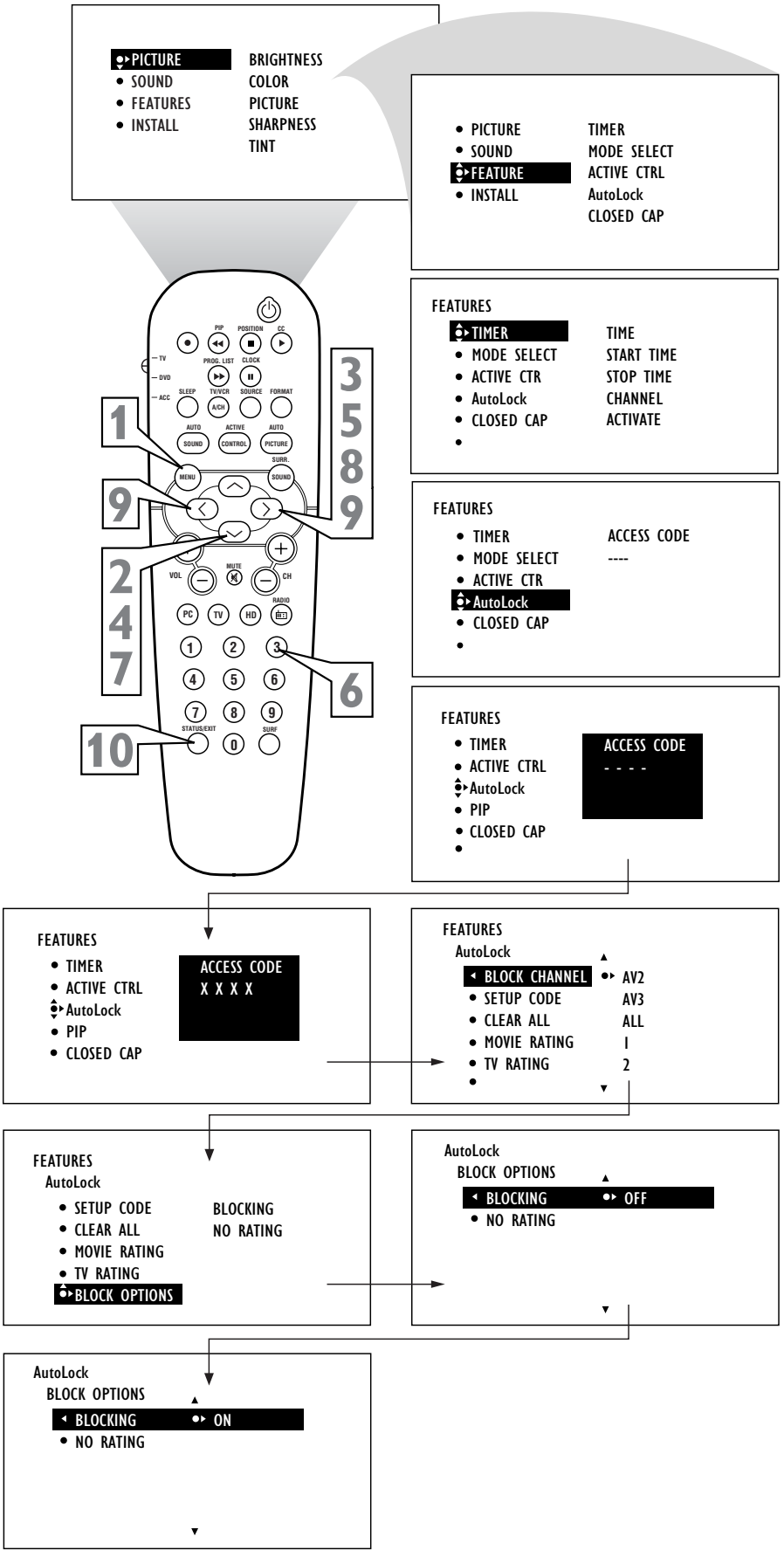
**6** **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.

**7** **Press the CURSOR DOWN** repeatedly until BLOCK OPTIONS is highlighted.

**8** **Press the CURSOR RIGHT** to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted. Or choose NO RATING.

**9** **Press the CURSOR RIGHT or LEFT** to toggle BLOCKING (or NO RATING) ON or OFF.

**10** **Press the STATUS/EXIT button** to remove the menu from the screen.




## *HELPFUL HINT*

Remember, when the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen.

# USING THE AUTOLOCK™ REVIEW SCREEN

*To remind you which ratings you have blocked and which Block Options you have selected, a review screen is available to review your AutoLock™ settings. To access this screen follow the steps below.*

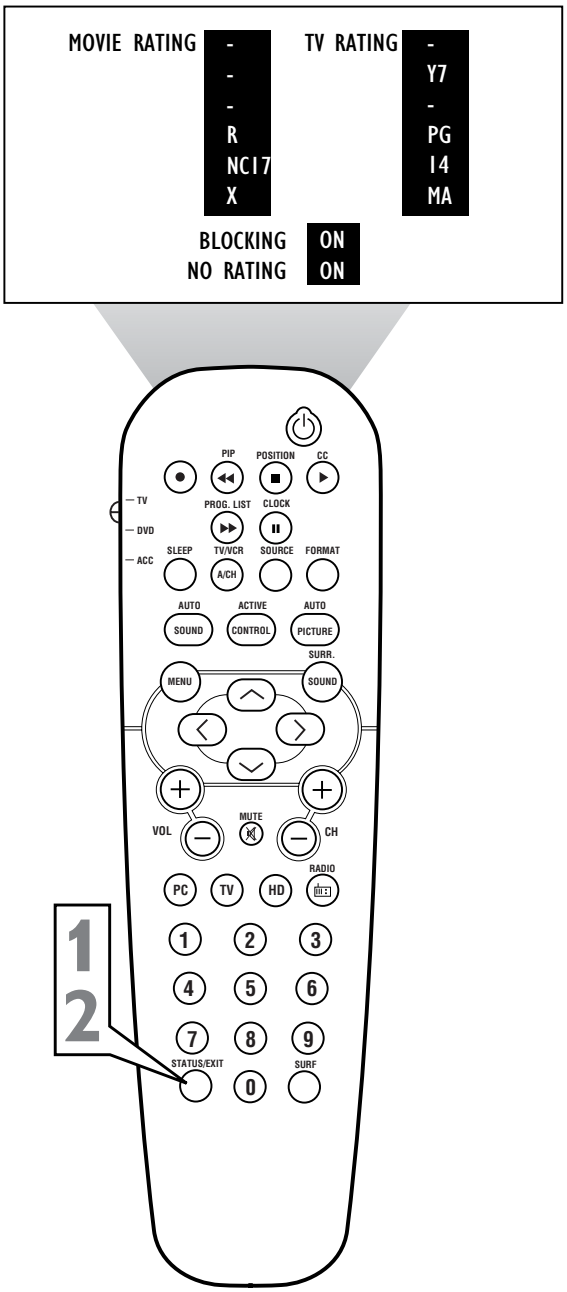
**1** **Press the STATUS/EXIT button** on your remote control **TWICE**. Your AutoLock™ settings will appear on the screen.

**NOTE:** If you have blocked specific subratings, such as *V* for Violence in the TV-PG category, these blocked subratings will not appear in the review. The subratings however, are still blocked according to your selections.

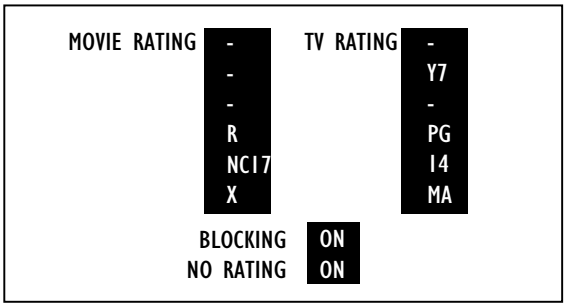
**2** After a few seconds, the settings will leave the screen automatically, or you can **press the STATUS/EXIT button** a third time to remove them from the screen.

### *HELPFUL HINT*

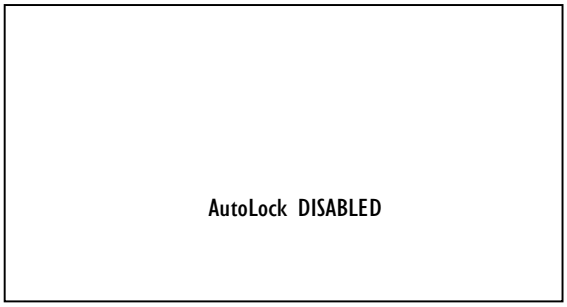
The AutoLock™ Status screen will only appear if the BLOCKING option is set to ON. For details, see previous page for details.




This display will appear after the step 1 above is completed if the AutoLock™ BLOCKING option is set to ON.




This display will appear after the step 1 above is completed if the AutoLock™ BLOCKING option is set to OFF.



# How to Use the Closed Captioning Controls

*Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.*

**1** **Press the MENU button** on the remote control to show the on-screen menu.

**2** **Press the CURSOR DOWN button** twice to highlight FEATURES.

**3** **Press the CURSOR RIGHT button** and the menu will shift to the left.

**4** **Press the CURSOR DOWN button** repeatedly until the CLOSED CAP control is highlighted.

**5** **Press the CURSOR RIGHT button** again. The menu will shift to the left and CAPTION MODE will be highlighted.

**6** **Press the CURSOR RIGHT button** to highlight CAPTION MODEs.

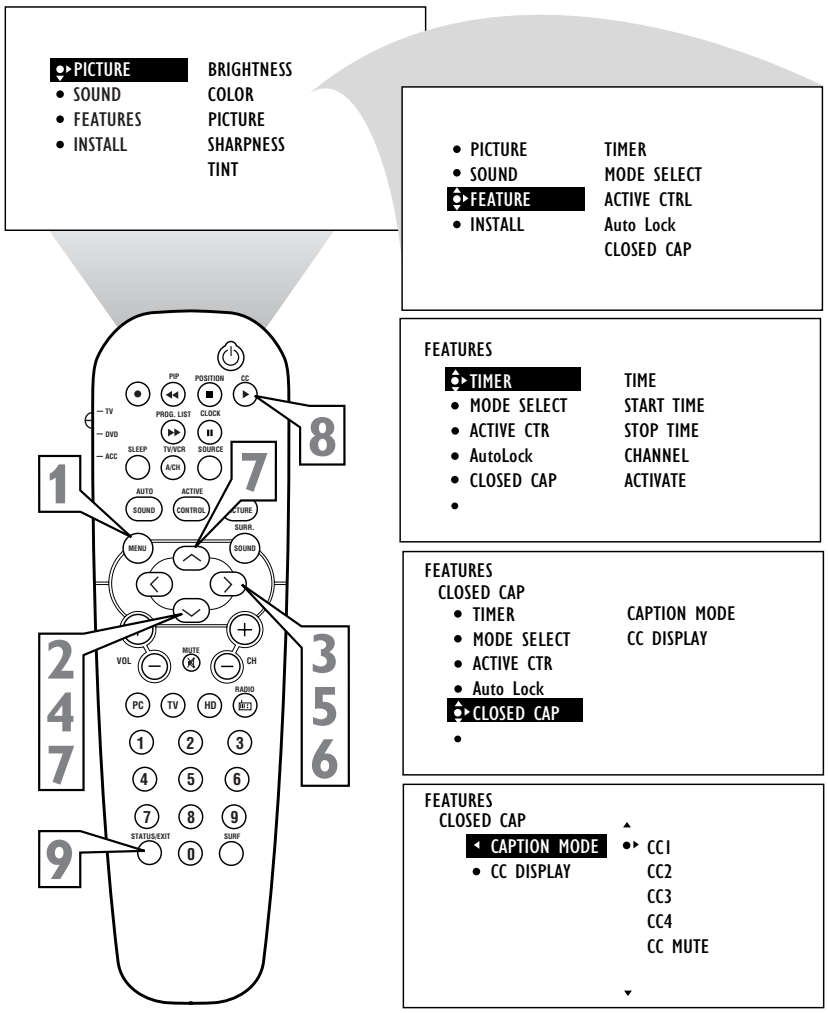
**7** **Press the CURSOR UP or DOWN button** to select a CAPTION MODE: CC1, CC2, CC3, CC4, CC MUTE, TXT1, TXT2, TXT3, or TXT4. CC DISPLAY turns text OFF or ON if the TV station broadcasting on the channel is making CLOSED CAPTIONING available. With CC DISPLAY highlighted, press the CURSOR RIGHT to toggle Closed Captioning ON or OFF.

**8** **NOTE:** You also can **press the CC button** on the remote control to turn the CC option ON or OFF.

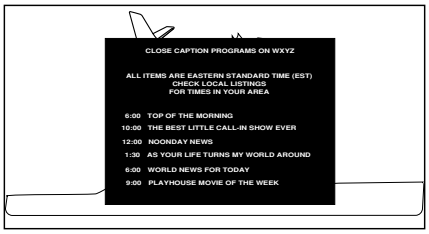
**9** **Press the STATUS/EXIT button** to remove the menu from the screen.

## *Helpful Hint*

Not all TV programs and product commercials are broadcast with Closed Captioning (CC). Nor are all Closed Captioning MODEs (CAPTION 1–4 or TEXT 1–4) necessarily being used by broadcast stations during the transmission of a program offering Closed Captioning. Refer to your area's TV program listings for the stations and times of shows being broadcast with Closed Captioning.



**CAPTION Mode Example Display**


CLOSE CAPTION PROGRAMS ON WXYZ
ALL ITEMS ARE EASTERN STANDARD TIME (EST)
CHECK LOCAL LISTINGS
FOR TIMES IN YOUR AREA
6:00 TOP OF THE MORNING
10:00 THE BEST LITTLE CALL-IN SHOW EVER
12:00 NOONDAY NEWS
1:30 AS YOUR LIFE TURNS MY WORLD AROUND
6:00 WORLD NEWS FOR TODAY
9:00 PLAYHOUSE MOVIE OF THE WEEK

**TEXT Mode Example Display -** The TV screen will be blocked from viewing.

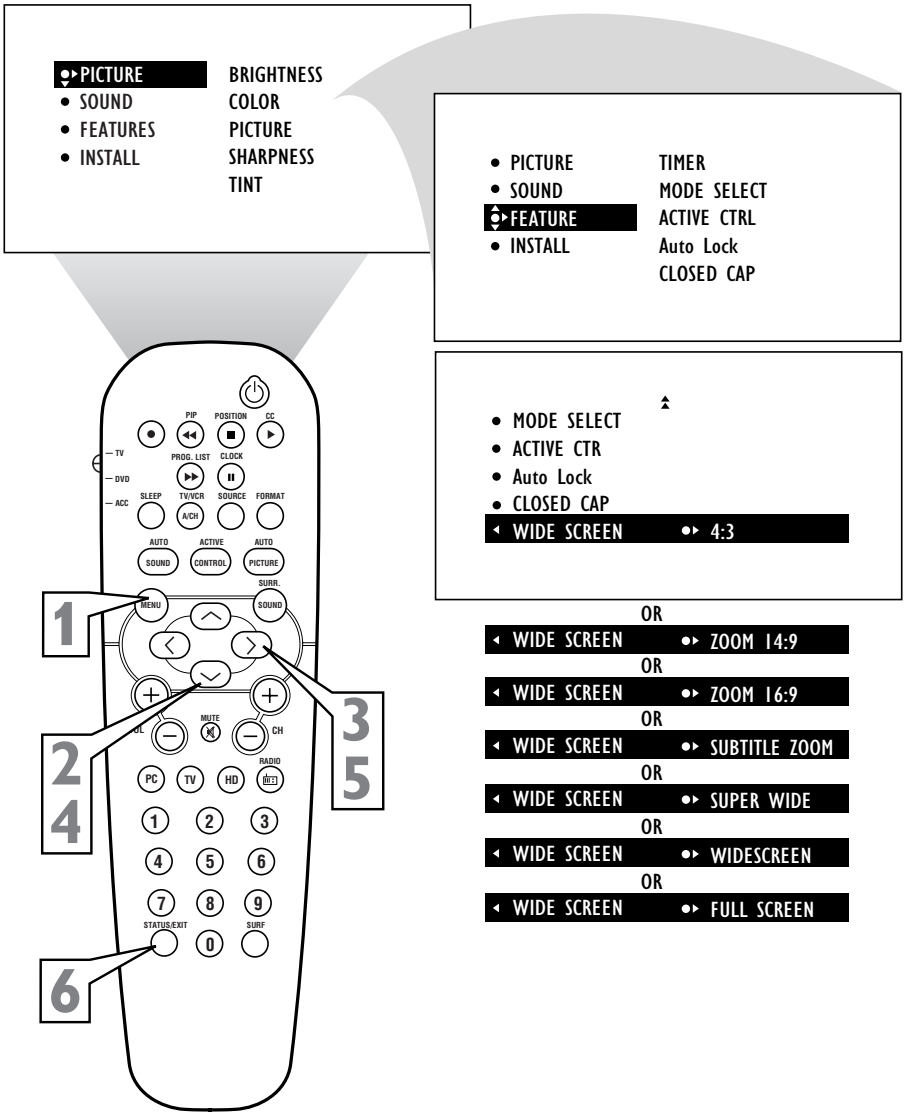
# How to Use the Widescreen (Format) Control

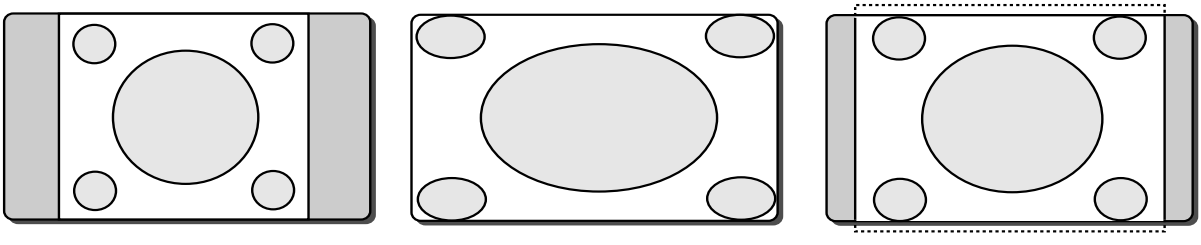
*You can change the screen format size to match the type of program you're watching. Select the normal 4:3, or the Zoom 14:9, Zoom 16:9, Subtitle Zoom, Super Wide, Widescreen, or Full Screen aspect ratios.*

1. **Press the MENU button** on the remote control to show the on-screen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the WIDESCREEN control is highlighted.
5. **Press the CURSOR RIGHT button** repeatedly to toggle among the three screen format sizes; 4:3, ZOOM 14:9, ZOOM 16:9, SUBTITLE ZOOM, SUPER WIDE, WIDESCREEN, or FULL SCREEN.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

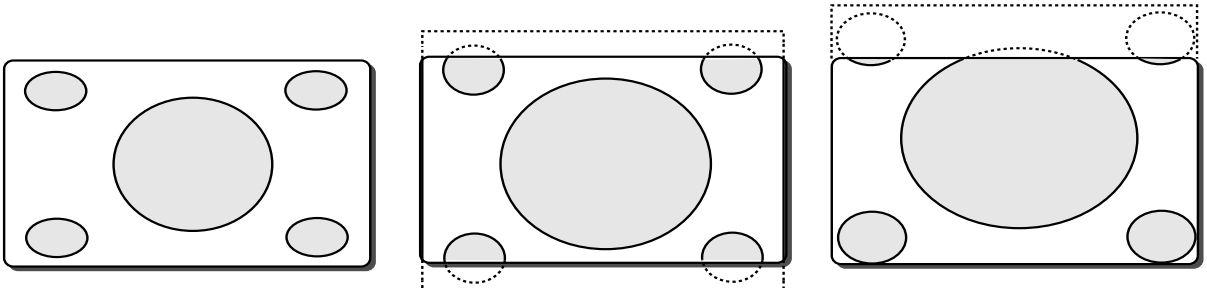
## *Helpful Hint*

When in the TV Mode and no onscreen menu displayed, **pressing the CURSOR RIGHT and LEFT buttons** will toggle the FORMAT options.



4:3 SUPER WIDE ZOOM 14:9



WIDESCREEN ZOOM 16:9 SUBTITLE ZOOM

# How to Use the Program List Control

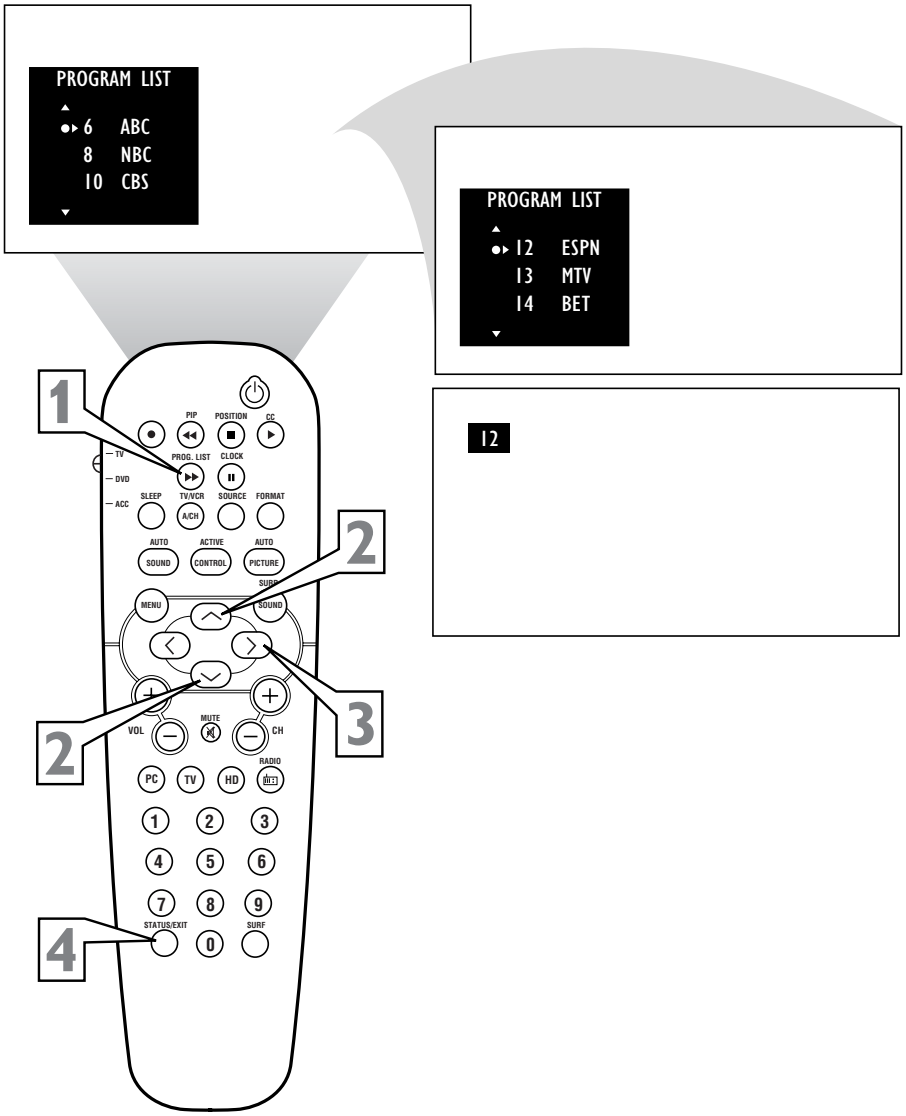
*The Program List Control will allow you to quickly overview all the programmed channels that have been placed into the televisions memory (see the Auto Programming section of this manual for more details). Program List will let you easily select the desired channels your looking for. Program List will display the channel number, the name of the channel if you have given it one, and whether it have AutoLock turn on or off.*

**1** **Press the PROGRAM LIST button** on the remote control to show the current list of installed channels (the current channel will be highlighted).

**2** **Press the CURSOR UP or DOWN buttons** to scroll the list of channel, highlighting the one you want to activate.

**3** **Press the CURSOR RIGHT button** to activate the channel. The TV will tune to that channel.

**4** **Press the STATUS/EXIT button** to remove the menu from the screen.



# How to set the Sleeptimer control

*Have you ever fallen asleep in front of the TV, only to have it wake you up at two in the morning with a test pattern sound screeching in your ears? Well, your TV can enable you to avoid that discomfort by automatically turning itself off. With the Sleep Timer feature, you can set a timer to automatically switch the TV OFF after a period of time you choose (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes).*

**1** **Press the SLEEP button** on the remote control. The SLEEP timer onscreen display will appear in the upper part of the screen.

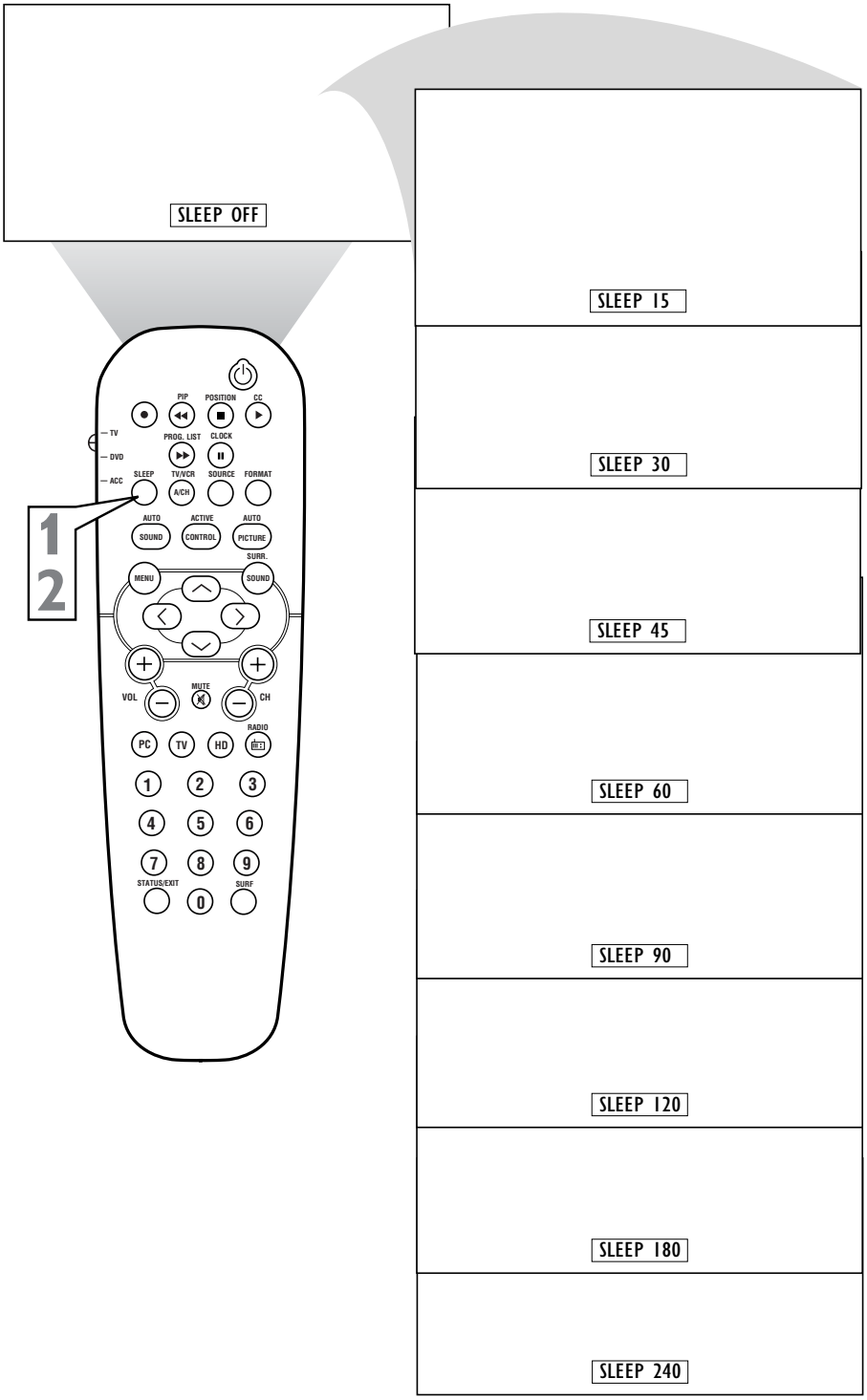
**2** **Within five seconds, press the SLEEP button** repeatedly to pick the amount of time (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes) before the TV will turn itself off.

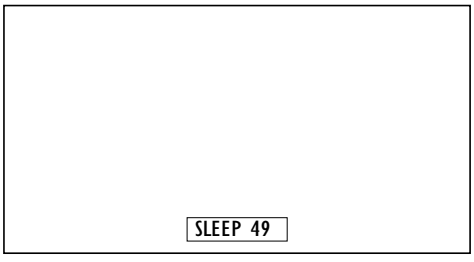
An onscreen countdown will appear during the last minute before the TV shuts itself off.

## *Helpful Hint*

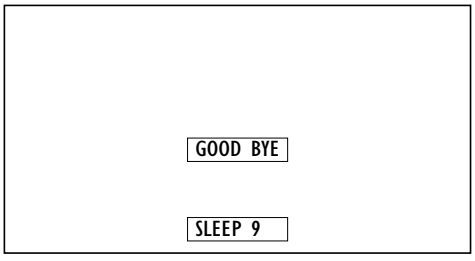
To see how many minutes remain before the TV shuts itself off, press the STATUS/EXIT button.

A Sleep Timer setting can be cancelled by pressing any button during the last minute of the operation.




During the last minute of a SLEEP timer setting an onscreen countdown will be displayed.




During the last 10 seconds of a SLEEP timer setting, an onscreen display will read GOOD BYE.

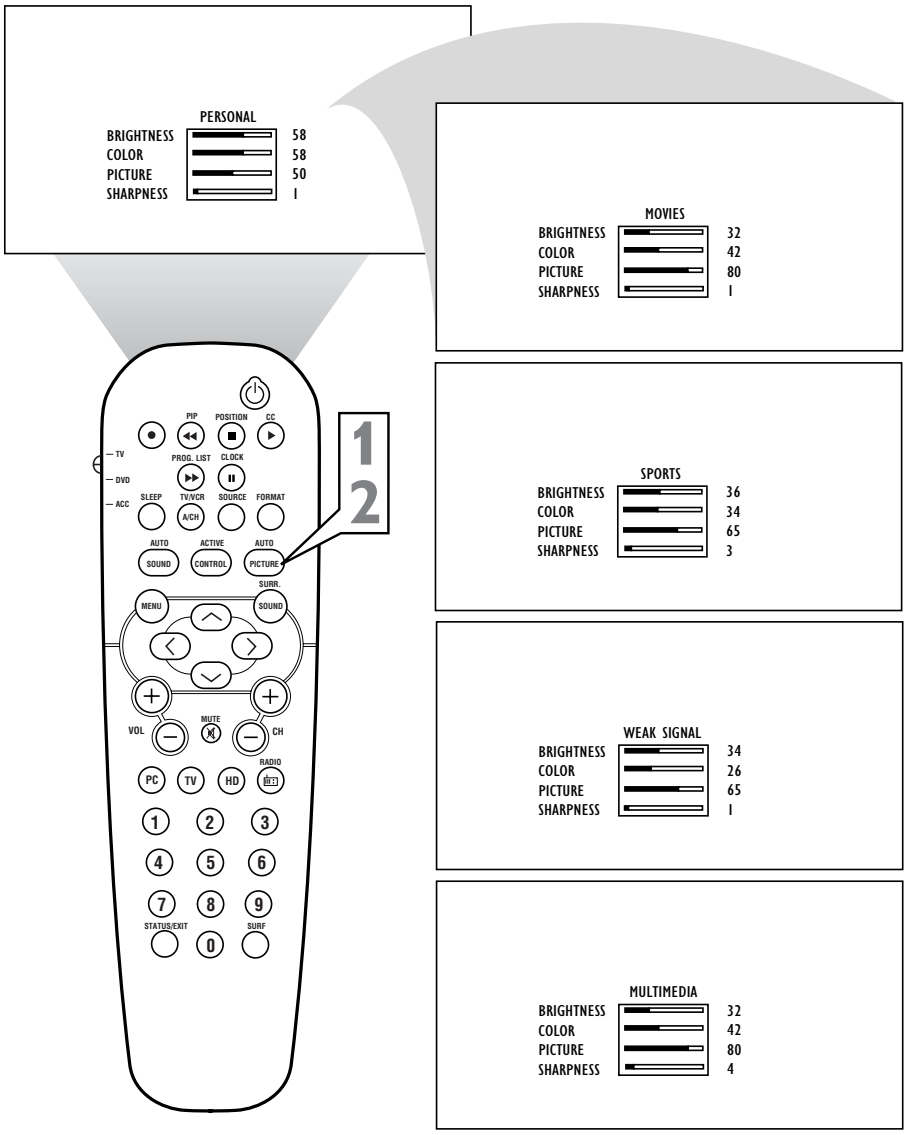
# How to Use the AutoPicture™ Control

*Whether you're watching a movie or a video game, your TV has automatic video control settings that will match with your current program source or content. AutoPicture™ quickly resets your TV's video controls for a number of different types of programs and viewing conditions that you may have in your home. The Movies, Sports, Weak Signal, and Multimedia AutoPicture™ controls have been preset at the factory to automatically adjust the TV's brightness, color, picture, sharpness, tint, and color temperature levels. The Personal AutoPicture™ settings are the ones that you made through the PICTURE options within the onscreen menu*

**1** **Press the PICTURE button** on the remote control. The current AutoPicture™ setting will appear in the middle of the screen.

**2** **Press the PICTURE button repeatedly** to select either PERSONAL, MOVIES, SPORTS, WEAK SIGNAL, or MULTIMEDIA picture settings.

**NOTE:** The PERSONAL setting and the PICTURE options within the onscreen menu are the same. This is the only option in AutoPicture™ that can be changed. To adjust these settings, use the PICTURE options within the onscreen menu. All other settings are set up at the factory during production and cannot be adjusted.




**NOTE:** The values shown in the diagram above are sample values only. Your television's values may vary and display different numbers.

# How to Use the AutoSound™ Control

*AutoSound™ allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls (Voice, Music, and Theatre) enable you to tailor the TV sound so as to enhance the particular program you are watching. Follow these steps to select any of the options.*

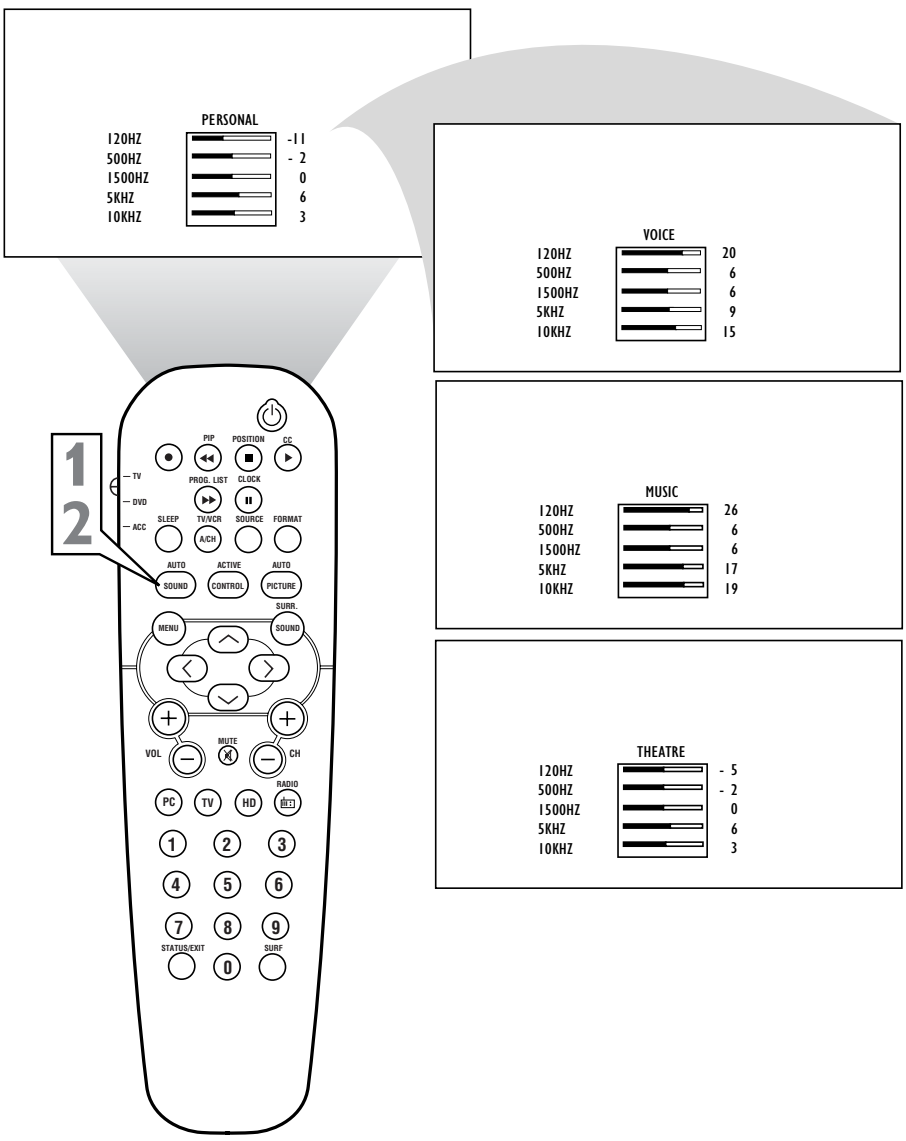
**1** **Press the SOUND button** on the remote control. The current AutoSound™ setting will appear in the middle of the screen.

**2** **Press the SOUND button repeatedly** to toggle among the four settings: PERSONAL, VOICE, MUSIC, or THEATRE.

Remember, only the PERSONAL control can be changed by the viewer. This changes the settings in the main onscreen menu's SOUND controls

## *Helpful Hint*

AutoSound™ works only with the programs coming through the ANTENNA/CABLE (ANT) input on the rear of the TV (RF audio). It will not control the sound levels for the external connections.




**NOTE:** The values shown in the diagram above are sample values only. Your television's values may vary and display different numbers.

# How to Use the Surf Control

*A list or series of previously viewed channels can be selected with the SURF button on your remote control. With this feature, you can easily switch between different TV channels that currently interest you. The SURF control allows you to set up to ten channels in its quick viewing list.*

**1** **Press the CHANNEL(+) or (–) button** (or the numbered buttons) to select a channel to add to the SURF list.

**2** **Press the SURF button** on the remote control. The onscreen display may read, "SURF LIST EMPTY." The number of the current channel will be shown with "ADD?" to the right.

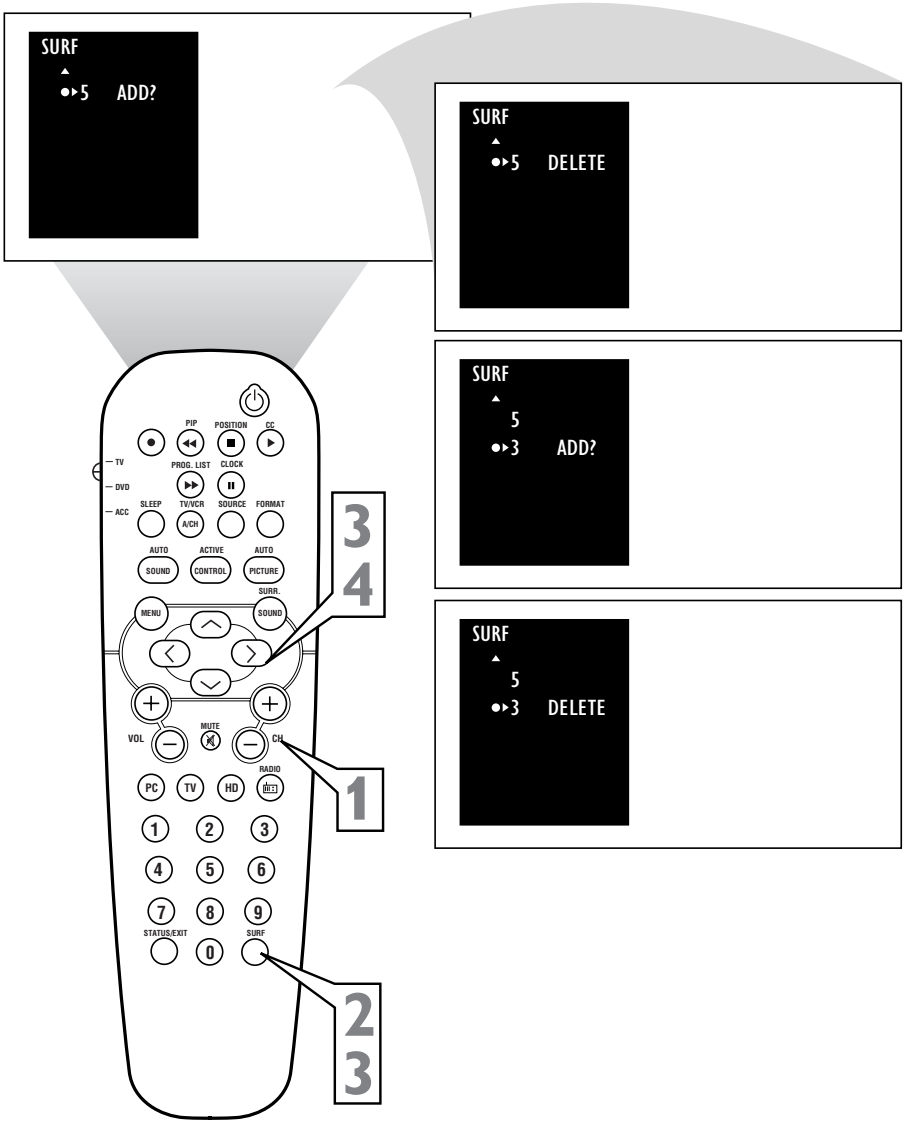
**3** While the SURF list message or the SURF channel list appears on the screen, **press the CURSOR RIGHT button** to add the present channel to the SURF list.

**4** If you want to delete the present channel from the SURF list, **press the CURSOR RIGHT button** again.

Repeat steps 1 through 3 to add more channels (up to 10) to the SURF list.

## *Helpful Hint*

Along with regularly programmed channels, the external video source connections can be added to the SURF list. This means that the external A/V Jacks and their channels can be added to your SURF list. Use the Source button to tune their channel and use the same procedure described on this page.



# REMOTE CONTROL USE WITH ACCESSORY DEVICES - DIRECT METHOD

*Your remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable Boxes, Satellite Systems, DBS, DVD, etc. However, an easy onetime step may be necessary before the remote will work your VCR.*

*Try this initial Direct Access Method to see if going on to the following section is necessary.*

**1** **Place the TV/DVD/ACC Mode Switch** in the proper position.

**2** **Point the remote control** at the device and press the POWER button.

Does the remote turn the device ON?

**If YES,** stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.

**If NO,** continue...

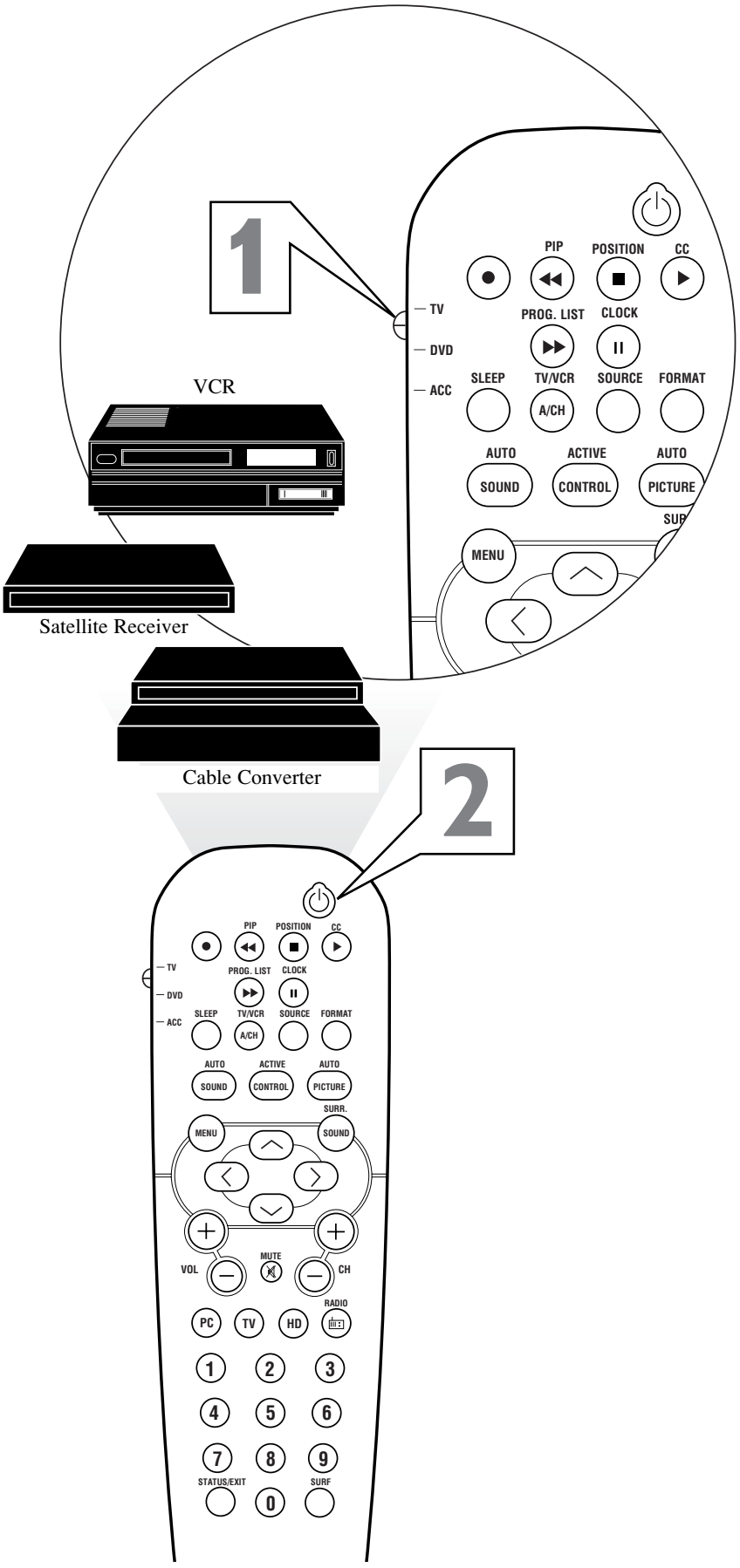
**3** First look up a **FOUR-DIGIT remote control number** for your brand of Device before going through the simple steps on the following page.

**Find your Four-Digit Code on pages 42-44.**

## *HELPFUL HINT*

If more than one number is listed, you may have to try more than the first Four-Digit code given in order to locate your Device's remote code.

**NOTE:** Setting up the remote is for use with external accessory devices only and not for use with other television brands.



# REMOTE CONTROL USE WITH ACCESSORY DEVICES - CODE ENTRY METHOD

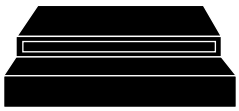
*Now that you have looked up the three-digit Remote Code Number for your brand of device, you are ready to follow the four simple steps below.*

*Please read through steps 1-4 before beginning.*

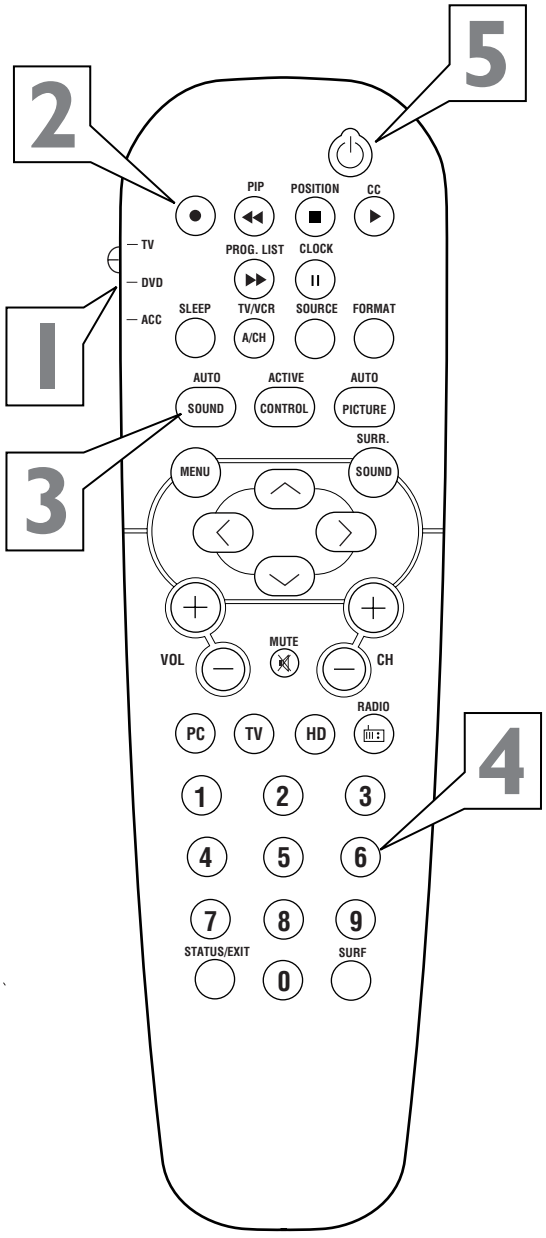
1. **Place the TV/DVD/ACC Mode Switch** in the proper position.
2. **Press the • RECORD button** on the remote control and release.
3. **Press the AUTO SOUND button** on the remote within 30 seconds, then release.
4. **Enter the FOUR-DIGIT REMOTE CODE NUMBER (page 42-44)** for your desired device. The remote is now ready to send commands to the unit.
5. **Point the remote** at the Device. Press the POWER button on the remote to turn the unit ON. If this works you are finished. If it does not work the first time, repeat the steps using a different remote code number.

VCR

Satellite Receiver or DBS, DVD



Cable Converter




## *HELPFUL HINT*

After a second try and the remote does not operate your device, see if there is another four-digit code number (pages 42-44) listed for your device and repeat the steps above using the new number.

If after repeated attempts the code number method does not work you device, try the **SEARCH METHOD** on the next page.

**NOTE:** Setting up the remote is for use with external accessory devices only and not for use with other television brands.

# REMOTE CONTROL USE WITH ACCESSORY DEVICES - SEARCH METHOD

*Your TV remote can be set to work various external devices such as VCRs, Cable Boxes, Satellite Receivers, DBS, DVD, etc. by what is called the search method of remote control programming.*

*If the "Remote Code" number method shown on the previous page did not set your remote to work your external device, then follow the easy steps listed below.*

*Please read steps 1-4 before beginning.*

**1** **Press the POWER button** on the device your are attempting to program to turn it ON.

**2** **Place the TV/DVD/ACC Mode Switch** in the proper position.

**3** **Press the • RECORD and the AUTO SOUND buttons simultaneously** and hold them down. The remote will continue to send programming codes, one ever 1.5 seconds.

**4** The device will begin to change channels after the remote identifies the correct code. When the channels start to change release the • RECORD and AUTO SOUND buttons. The remote should be ready to operate the device.

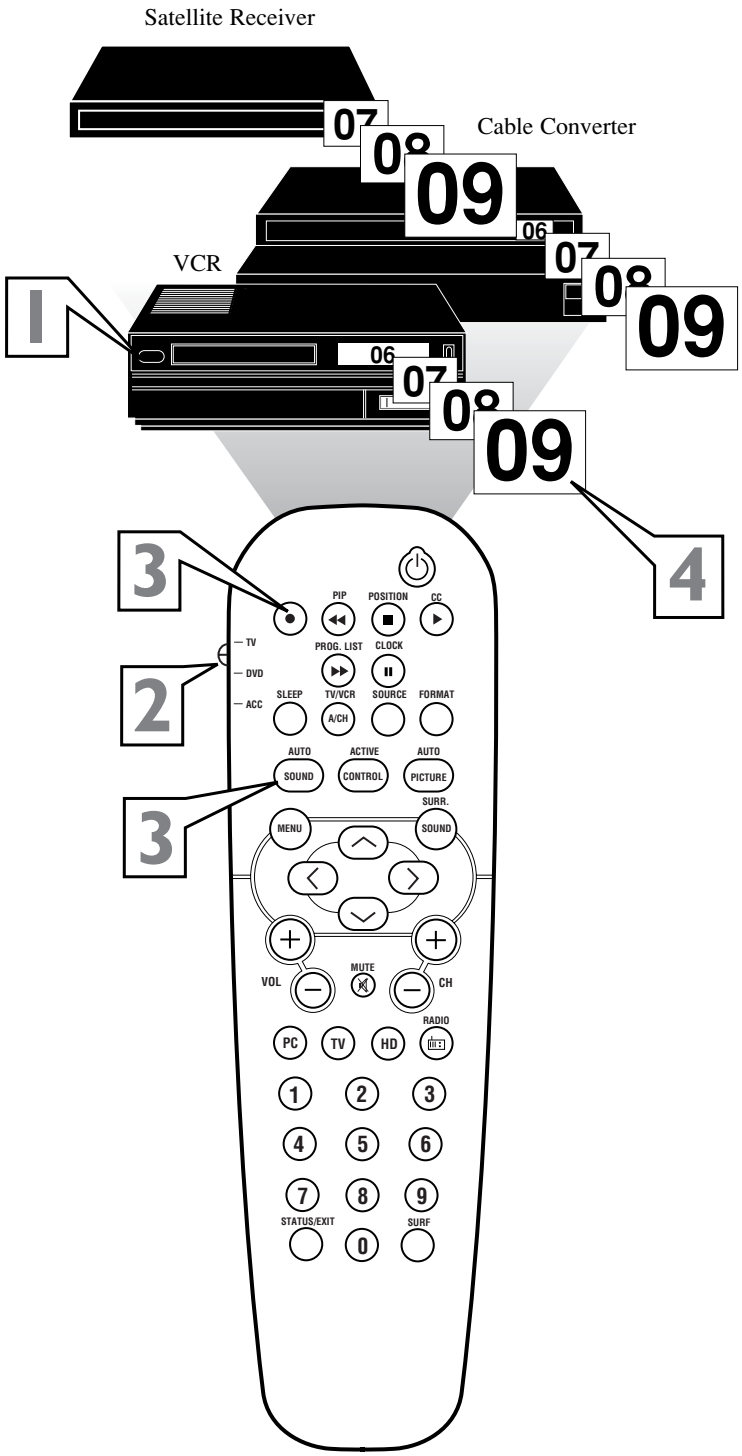
## *HELPFUL HINT*

This method can take several minutes to perform.

Don't let the device scan up more than five channels. If you do the remote may pass up the right code and another search cycle will have to be repeated.

If no channel change happens within two minutes, repeat steps 1-4. Should a channel change still not occur, the remote will not work the desired device.

**NOTE:** Setting up the remote is for use with external accessory devices only and not for use with other television brands.



## VCR CODES

Admiral . . . . . 2027, 2052
Adventura . . . . . .2001
Aiko . . . . . .2059
Aiwa . . . .2001, 2017, 2062, 2070, 2072
Akai . . . . .2021, 2029, 2038, 2060, 2063
Akiba . . . . . .2034
Alba . . . . . .2011, 2034, 2052, . . . . . .2059, 2063, 2072
Ambassador . . . . . .2011
American Action . . . . . .2059
American High . . . . . .2015
Amstrad . . . . . .2001, 2059, 2067, 2068
Anam . . . . . .2017, 2042, 2054, . . . . . .2057, 2059, 2082, 2084
Anam National . . . . . .2042, 2054, 2087
Anitech . . . . . .2034
Asa . . . . . .2017, 2035
Asha . . . . . .2057
Asuka . . . . . .2017
Audiovox . . . . . .2017
Baird . . . . . .2001, 2021, 2037, 2039
Basic Line . . . . . .2011, 2034, 2059
Beaumark . . . . . .2057
Bell & Howell . . . . . .2037
Blaupunkt . . . . .2003, 2005, 2010, 2014, . . . .2041, 2042, 2048, 2054, 2055, 2075
Brandt . . . . . .2047, 2064, 2065
Brandt Electronic . . . . . .2021
Broksonic 2002, 2040, 2046, 2052, 2078
Bush . . . . . .2034, 2052, 2059, 2072
Calix . . . . . .2017
Canon . . . . . .2015
Capehart . . . . . .2011
Carver . . . . . .2035
Catron . . . . . .2011
CCE . . . . . .2034, 2059
CGE . . . . . .2001
Cimline . . . . . .2034
Cineral . . . . . .2059
Citizen . . . . . .2017, 2059
Clatronic . . . . . .2011
Colt . . . . . .2034
Combitech . . . . . .2072
Condor . . . . . .2011
Craig . . . .2017, 2026, 2034, 2057, 2058
Crown . . . . . .2011, 2034, 2059
Curtis Mathes . .2015, 2021, 2032, 2042
Cybernex . . . . . .2057
Cyrus . . . . . .2035
Daewoo . .2011, 2024, 2025, 2059, 2083
Dansai . . . . . .2034
Daytron . . . . . .2011
De Graaf . . . . . .2022, 2043
Decca . . . . . .2001, 2035
Denon . . . . . .2022
Dual . . . . . .2021
Dumont . . . . . .2001, 2035, 2037
Dynatech . . . . . .2001
Elbe . . . . . .2018
Elcatech . . . . . .2034
Electrohome . . . . . .2017
Electrophonic . . . . . .2017
Emerex . . . . . .2012
Emerson . . . . . .2001, 2002, 2017, 2023, . . . . . .2040, 2046, 2051, 2052, . . . . . .2059, 2078, 2083
ESC . . . . . .2057, 2059
Ferguson . . . . . .2021, 2039, 2064, 2065
Fidelity . . . . . .2001
Finlandia . . . . . .2035, 2037
Finlux . . . . . .2001, 2022, 2035, 2037
Firstline . .2017, 2023, 2024, 2034, 2052
Fisher . . . . . .2025, 2026, 2030, 2037
Frontech . . . . . .2011
Fuji . . . . . .2015
Funai . . . . . .2001
Garrard . . . . . .2001
GE . . . . . .2015, 2027, 2032, 2057
GEC . . . . . .2035
General . . . . . .2011
Go Video . . . . . .2077, 2081
Goldhand . . . . . .2034
Goldstar . . . . . .2017, 2018, 2053, 2079
Goodmans 2001, 2017, 2034, 2059, 2075
Gradiente . . . . . .2001, 2008
Graetz . . . . . .2005, 2021, 2037, 2057
Granada . . . . . .2025, 2035, 2037
Grandin . . . . . .2001, 2017, 2034
Grundig . . . . . .2003, 2005, 2007, 2010, . . . . . .2034, 2035, 2048, 2050, . . . . . .2054, 2069, 2071, 2075
Hanseatic . . . . . .2017
Harley Davidson . . . . . .2001
Harman/Kardon . . . . . .2018, 2035
Harwood . . . . . .2034
HCM . . . . . .2034
Headquarter . . . . . .2025
Hinari . . . . . .2004, 2034, 2057, 2072
Hi-Q . . . . . .2026
Hitachi . . . . . .2001, 2004, 2021, . . . . . .2022, 2043, 2057
Hughes Network Systems . . . . . .2022
Hypson . . . . . .2034
Imperial . . . . . .2001
Ingersol . . . . . .2004
Interfunk . . . . . .2035
ITT . . . . . .2005, 2021, 2025, 2037, . . . . . .2038, 2057, 2074
ITV . . . . . .2017, 2059
Jensen . . . . . .2021
JVC . . . . . .2008, 2021, 2033, 2049, . . . . . .2050, 2074, 2080
Kaisui . . . . . .2034
KEC . . . . . .2017, 2059
Kendo . . . . . .2038, 2052
Kenwood . . . . . .2018, 2021, 2033
KLH . . . . . .2034
Kodak . . . . . .2015, 2017
Korpel . . . . . .2034
Layco . . . . . .2034
Lenco . . . . . .2059
LG . . . . . .2079
Lloyd's . . . . . .2001, 2051
Loewe . . . . . .2004, 2005, 2017, 2035
Logik . . . . . .2004, 2034, 2057
Luxor . . . .2023, 2025, 2027, 2037, 2038
LXI . . . . . .2017
M Electronic . . . . . .2001
Magnasonic . . . . . .2059
Magnavox . . . . .2001, 2015, 2019, 2035
Magnin . . . . . .2057
Manesth . . . . . .2024, 2034
Marantz . . . . . .2003, 2005, 2015, 2035
Marta . . . . . .2017
Matsui . . . . . .2004, 2016, 2036, . . . . . .2052, 2070, 2072
Matsushita . . . . . .2015, 2042, 2055
Mei . . . . . .2015
Melectronic . . . . . .2018
Memorex . . . . .2001, 2015, 2017, 2019, . . . . . .2025, 2026, 2027, 2037, 2052, . . . . . .2057, 2062, 2085, 2087, 2088
Memphis . . . . . .2034
Metz . . . . . .2003, 2005, 2017, . . . . . .2042, 2048, 2055, 2069
MGA . . . . . .2023, 2057
MGN Technology . . . . . .2057
Mincrva . . . . . .2048
Minerva . . . . . .2005, 2010, 2048
Minolta . . . . . .2022
Mitsubishi 2023, 2027, 2033, 2035, 2045
Motorola . . . . . .2015, 2027
MTC . . . . . .2001, 2057
Multitech . . . . . .2001, 2034
Murphy . . . . . .2001
NAD . . . . . .2031
National . . . . . .2054
NEC . . . . .2018, 2020, 2021, 2033, 2037
Neckermann . . . . . .2035
Nesco . . . . . .2034
Nikko . . . . . .2017
Nikon . . . . . .2014
Noblex . . . . . .2057
Nokia . . . . . .2025, 2037, 2038, 2057
Nokia . . . .2021, 2025, 2037, 2038, 2057
Nordmende . . . . . .2021, 2061, 2064, . . . . . .2065, 2074
Oceanic . . . . . .2001, 2021
Okano . . . . . .2063, 2070
Olympus . . . . . .2015, 2054
Optimus . . . . . .2017, 2027, 2031, 2037, . . . . . .2042, 2077, 2086, 2087, 2088
Orion . . . . . .2002, 2004, 2016, 2036, . . . . . .2046, 2052, 2070, 2072, 2078
Osaki . . . . . .2001, 2017, 2034
Otto Versand . . . . . .2035
Palladium . . . . .2005, 2017, 2021, 2034
Panasonic . . . . . .2015, 2042, 2053, . . . . . .2054, 2055, 2087
Pathe Cinema . . . . . .2016
Pathe Marconi . . . . . .2021
Penny . . . . . .2015, 2017, 2018, . . . . . .2020, 2022, 2057

# Remote Control Direct entry Codes

## VCR CODES (continued)

Pentax .....2022
Perdio .....2001
Philco .....2015, 2018, 2052, 2078
Philips ..2015, 2035 (DEFAULT VCR), .....2074, 2075
Phonola .....2035
Pilot .....2017
Pioneer .....2031, 2033, 2035
Portland .....2011
Profex .....2066
Profitronic .....2057
Proline .....2001
Proscan .....2032
Protec .....2034
Pulsar .....2019
Pye .....2035
Quarter .....2025
Quartz .....2025
Quasar .....2015, 2042, 2087
Quelle .....2035
Radio Shack .....2001, 2085
Radiola .....2035
Radix .....2017
RCA 2015, 2022, 2027, 2032, 2038, 2057
Realistic .....2001, 2015, 2017, .....2025, 2026, 2027, 2037
REX .....2021, 2074
RFT .....2075
Ricoh .....2014
Roadstar .....2017, 2034, 2057, 2059
Runco .....2019
Saba .....2021, 2049, 2050, 2061, 2 .....064, 2065, 2074
Saisho .....2004, 2016, 2036, 2052
Salora .....2023, 2025, 2038
Samsung .....2024, 2057, 2076, 2077
Sanky .....2019, 2027
Sansui .....2001, 2021, 2033, .....2052, 2058, 2078
Sanyo .....2025, 2026, 2037, 2057
Saville .....2072
SBR 2035
Schaub Lorenz ..2001, 2005, 2021, 2037
Schneider .....2001, 2034, 2035
Scott .....2023, 2024, 2040, 2046
Sears .....2001, 2015, 2017, .....2022, 2025, 2026, 2037
SEG .....2057, 2066
SEI .....2004, 2035
Seleco .....2021
Semp .....2024
Sentra .....2011
Sharp .....2027, 2073
Shintom .....2034, 2037
Shogun .....2057
Shorai .....2004
Silva .....2017
Singer .....2024, 2034
Sinudyne .....2004, 2035
Solavox .....2011
Sonolor .....2025
Sontec .....2017
Sony ....2001, 2012, 2013, 2014, 2015
STS .....2022
Sunkai .....2070
Sunstar .....2001
Suntronic .....2001
Sylvania .....2001, 2015, 2023, 2035
Symhonic .....2001
Tashiko .....2001
Tatung .....2001, 2021, 2035
Teac .....2001, 2021
TEC .....2011
Technics .....2015, 2042, 2054
Teknika .....2001, 2015, 2007, 2017
Teleavia .....2021
Telefunken 2021, 2047, 2058, 2064, 2074
Tenosal .....2034
Tensai .....2001, 2066
Thomas .....2001
Thomson .....2021, 2064, 2074
Thorn .....2016, 2021, 2037
TMK .....2051, 2057
Toshiba ..2021, 2023, 2024, 2035, 2074
Totelevision .....2017, 2057
Towada .....2066
Uher .....2057
Unitech .....2057
Universum ....2001, 2006, 2010, 2017, .....2035, 2038, 2048, 2057, 2067
Vector .....2024
Vector Research .....2018, 2020
Victor .....2008, 2021, 2033
Video Concepts .....2020, 2024
Videosonic .....2057
Wards .....2001, 2015, 2022, 2026, .....2027, 2032, 2034, 2035, 2057
White Westinghouse .....2052, 2059
XR-1000 .....2001
XR-1001 .....2015
XR-1002 .....2034
Yamaha .....2018
Yamishi .....2034
Yokan .....2034
Yoko .....2011, 2057
Zenith ..2001, 2014, 2019, 2052, 2078

## DIGITAL VIDEO DISC CODES

Akai .....5316
Harman/Kardon .....5314
JVC .....5311, 5318
Kenwood .....5307
Magnavox .....5302
Mitsubishi .....5303
Onkyo .....5302, 5317, 5319
Panasonic .....5301, 5322
Philips ...5302, 5308 (DEFAULT DVD)
Pioneer .....5305, 5312, 5321
Proscan .....5304
RCA .....5304
Samsung .....5313
Sharp .....5320
Sony .....5306
Technics .....5301
Theta Digital .....5312
Thomson .....5310
Toshiba .....5302
Yamaha .....5301, 5309

## CABLE CODES

ABC ....3002, 3003, 3004, 3006, 3008
Andover .....3037
Bell & Howell .....3006
Birgmingham Cable Communication ... .....3020
British Telecom .....3002, 3012
Cabletime .....3016, 3019, 3025, 3029
Clyde .....3011
Contec .....3009
Cryptovision .....3038
Daehan .....3043
Daeryung .....3003
Decsat .....3027
Everquesst .....3007
Filmnet .....3028
France Telecom .....3030
GEC .....3011
Gemini .....3007
General Instrument .....3004, 3020, .....3031, 3046
Goldstar .....3014, 3047
Grundig .....3035
Hitachi .....3004
Jasco .....3007
Jerrold .....3002, 3004, 3005, 3006, .....3007, 3020, 3031, 3046
LG Alps .....3044
Memorex .....3001
Mnet .....3009, 3028
Now .....3041
Oak .....3009
Pacific .....3039
Panasonic .....3001, 3013
Paragon .....3001
Pioneer .....3014, 3036
Pulsar .....3001

## CABLE CODES (continued)

PVP Stereo Visual Matrix .....3002
Quasar .....3001
Radio Shack .....3007
Rembrandt .....3004
Runco .....3001
Salora .....3026
Samsung .....3014, 3040
Satbox .....3024
Scientific .....3003, 3032, 3049
Scientific Atlanta .....3003, 3008, 3021
Seawoo .....3045
Signal .....3007
Signature .....3004
Starcom .....3002, 3007
Stargate .....3007
Starquest .....3007
STS .....3015
Taihan .....3043
Tele+1 .....3028
Teleservice .....3022
Tocom .....3005
Tongkook 3 .....042, 3048
Toshiba .....3001
Tudi .....3023
Tusa .....3007
United Cable .....3002
Videoway .....3017
Visicable+ .....3033
Westminster .....3012
Wolsey Gene .....3037
Zenith .....3001, 3034

## SATELLITE CODES

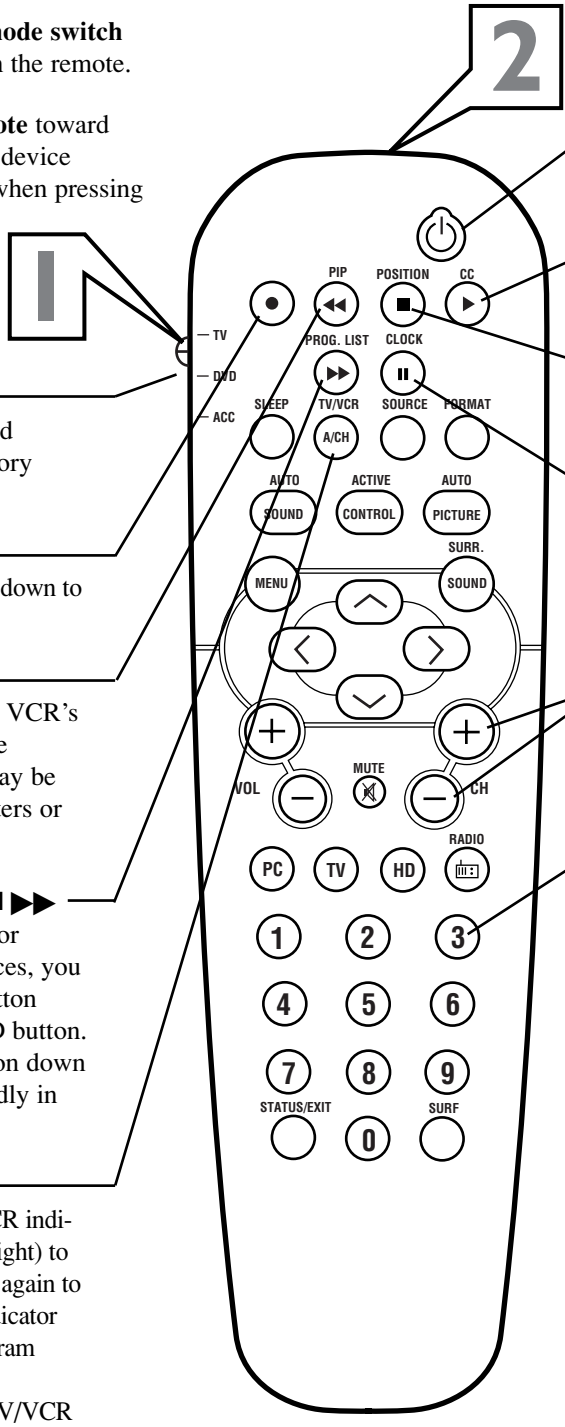
Absat .....4006
Alba .....4029, 4034, 4037, 4052
Aldes .....4019
Amstrad .....4003, 4016, 4025, .....4038, 4039, 4042
Ankard .....4013, 4019, 4030, 4044
Anttron .....4009, 4034
Armstrong .....4015
AST .....4027
Astra .....4005
Astro .....4008, 4039, 4045
Avalon .....4031
Axis .....4030, 4046
Beko .....4010
Best .....4030
Blaupunkt .....4008
Boca .....4015, 4043
Brain Wave .....4022
British Sky Broadcasting .....4058
BT .....4053
Bush .....4002
Cambridge .....4024
Canal Satellite .....4059
Canal+ .....4059
Channel Master .....4029
CNT .....4045
Comlink .....4019
Connexions .....4031
Crown .....4015
Cyrus .....4011
D-Box .....4054
DDC .....4029
DNT .....4011, 4031
Echostar .....4031, 4036, 4061
Emanon .....4034
Ferguson .....4002, 4009, 4010, 4023
Fidelity .....4016
Finlux .....4005, 4024, 4032, 4037
Fracarro .....4061
Freecom .....4034
FTE Humax .....4060
Fube .....4030, 4031, 4034
Galaxis .....4019, 4057, 4060
General Instrument .....4012
Gold Box .....4059
Gooding .....4048
Goodmans .....4010
Grundig .....4008, 4010, 4048
G-sat .....4009
Hinari .....4009
Hirschimann .....4008, 4032, 4039, .....4040, 4049
Hitachi .....4037
Houston .....4053
Huth .....4013, 4015, 4019, 4026
Intervision .....4050
Invideo .....4061
ITT .....4005
Johansson .....4022
JVC .....4048
Kathrein .....4004, 4006, 4008, .....4011, 4035, 4041
Kreiselmeyer .....4008
Kyostar .....4034
La Sat .....4043, 4045
Lenco .....4034
Lennox .....4050
Lupus .....4030
Luxor .....4005, 4049
Manhattan .....4037, 4045, 4050
Marantz .....4011
Maspro .....4004, 4023
Matsui .....4024, 4048
Mediamarkt .....4015
Mediasat .....4059
Minerva .....4048
Morgan's .....4015, 4043
Navex .....4022
Neuhaus .....4039
Neusat .....4057
Newhaus .....4013
Nokia .....4005, 4032, 4037, .....4049, 4054, 4063
Nordmende .....4029
Orbitech .....4039
Oxford .....4024
Pace .....4002, 4009, 4014, 4023, .....4037, 4055, 4058
Palladium .....4048
Palsat .....4039
Panda .....4037
Philips .....4007, 4011, 4020, .....4037, 4048, 4059
Phonotrend .....4019, 4050
Pioneer .....4021, 4059
Planet .....4061
Promax .....4037
Prosat .....4019
Quadral .....4029, 4044
Radiola .....4011
Radix .....4031, 4064
RFT .....4011, 4013, 4019
Saba .....4023, 4045
Sabre .....4037
Sagem .....4056
Salora .....4005
SAT .....4027, 4038
Satcom .....4026, 4051
Satec .....4009
Satmaster .....4026
Satpartner .....4022, 4034, 4040, 4045
Schwaiger .....4009, 4041
Seemann .....4031, 4046
SEG .....4030, 4034
Siemens .....4008
Skymaster .....4019, 4044, 4051
Sony .....4017, 4018
Strong .....4062
Sunstar .....4043
Tantec .....4023, 4037
Techniland .....4026
Technisat .....4001, 4039
Telefunken .....4034
Teleka .....4015, 4052
Telesat .....4051
Thomson .....4037, 4059
Tonna .....4026, 4053
TPS .....4056
Triad .....4027
Triasat .....4040
Unitor .....4022
Universum .....4008, 4049
Ventana .....4011
Vortec .....4034
Vtech .....4027
Winersat .....4022
Wisi .....4008, 4027, 4031, 4037
Xcom Multimedia .....4065
Xsat .....4006, 4065
Zehnder .....4033, 4045

# REMOTE CONTROL ACCESSORY DEVICE RELATED BUTTONS

*When using the TV remote with an accessory device, first make certain it is set to control your accessory device (by the REMOTE CODE or SEARCH method).*

**1** **Set the TV/DVD/ACC mode switch to the proper position** on the remote.

**2** **Point the top of the remote** toward the front of the accessory device (remote sensor window) when pressing the buttons.




**SYSTEM SWITCH**
Set in the proper position to send remote commands to the accessory device.

**RECORD • BUTTON**
Hold the VCR • RECORD button down to begin a VCR recording.

**REWIND BUTTON ◀◀**
Press to rewind tapes. For some VCR's the STOP button may have to be pressed first, then REWIND. May be used to scan back through chapters or titles on DVD movies.

**FAST FORWARD BUTTON ▶▶**
Press to rapidly advance a tape or DVD. For some accessory devices, you may need to press the STOP button first, then the FAST FORWARD button. In playback mode hold the button down to view the picture moving rapidly in the forward direction.

**TV/VCR BUTTON**
Press while in the VCR mode (VCR indicator on the front of the unit will light) to view the playback of a tape. Press again to place in the TV position (VCR indicator light will go off) to view one program while recording another program.
When used in the TV mode, the TV/VCR button will will have no functionality.

**POWER BUTTON**
Press to turn the accessory device ON and OFF.

**PLAY BUTTON ▶**
Press to begin playback of a video tape, DVD, etc.

**STOP BUTTON ■**
Press to stop the motion of a tape or to stop the playback of a DVD.

**PAUSE BUTTON II**
Press to temporarily stop the tape during a playback or recording or pause the playback of a DVD. Press again to release Pause.

**CHANNEL + & – BUTTONS**
Press to scan up or down through the channel numbers if your accessory device will change channels.

**NUMBER BUTTON**
Press buttons for direct channel selections. May also be used for direct number entries in certain onscreen menu feature settings.

### *HELPFUL HINT*

The buttons on the remote will not operate your accessory device if those features are not found on your accessory's remote control.

Note: All functions (particularly Search, Rewind, Fast Forward, etc.) will operate the same as with the original remote control provided with your accessory device.

# SETTING UP THE FM MODE (FM RADIO)

## INSTALL CONTROLS

*This TV also provides you with an FM Radio. An FM Radio signal must be connected to the FM Antenna 75Ω Jack located on the bottom of the TV.*

**1** **To enter the FM Mode, press the RADIO button** on the remote control. The FM Mode has its own onscreen menu options.

**2** **Press the MENU button** on the remote control to display the FM Mode onscreen menu.

**3** **Press the CURSOR UP or DOWN buttons** to scroll through the available FM Mode onscreen options. These options include: **Language, Auto Program, Manual Store, Sort, or Name.**

**LANGUAGE** - Choose to view the onscreen menu in English, French or Spanish.

**AUTO PROGRAM** - The Auto Program control will search the FM antenna signal and store any FM channel it finds in the TV's memory.

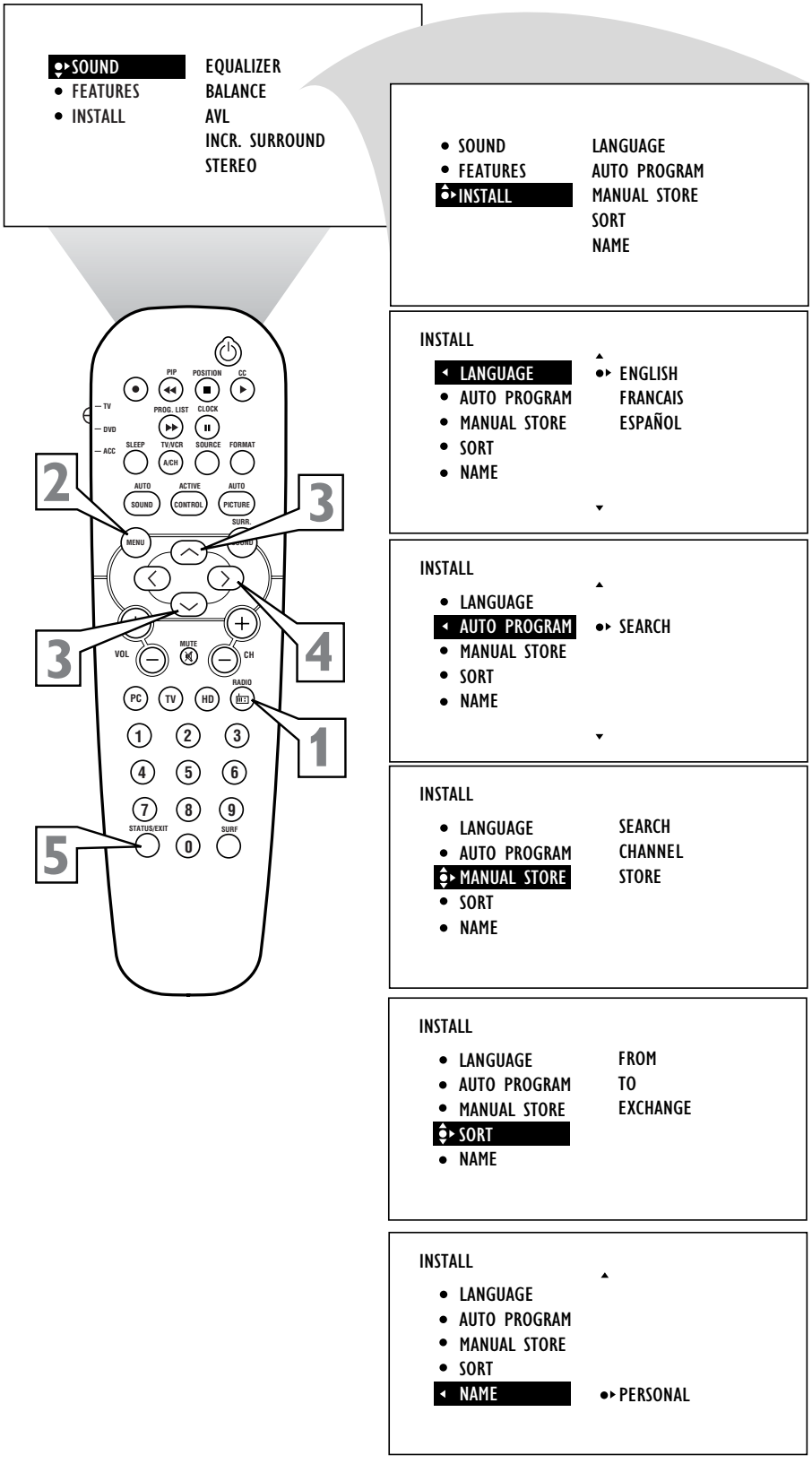
**MANUAL STORE** - This control will allow you to manually tune any available FM signals.

**SORT** - The Sort Control will allow you to rearrange your stored FM stations in the order you prefer.

**NAME** - You can label or apply a name to your programmed FM radio stations. Add your own personal name or choose one from the predefined list.

**4** **Press the CURSOR RIGHT button** to adjust or select items within the highlighted feature sub-menu.

**5** **Press the STATUS/EXIT button** to remove the onscreen menu from the TV screen when finished. Or, let the display time out and the menu will disappear after a few second.



# SETTING UP THE FM MODE (FM RADIO)

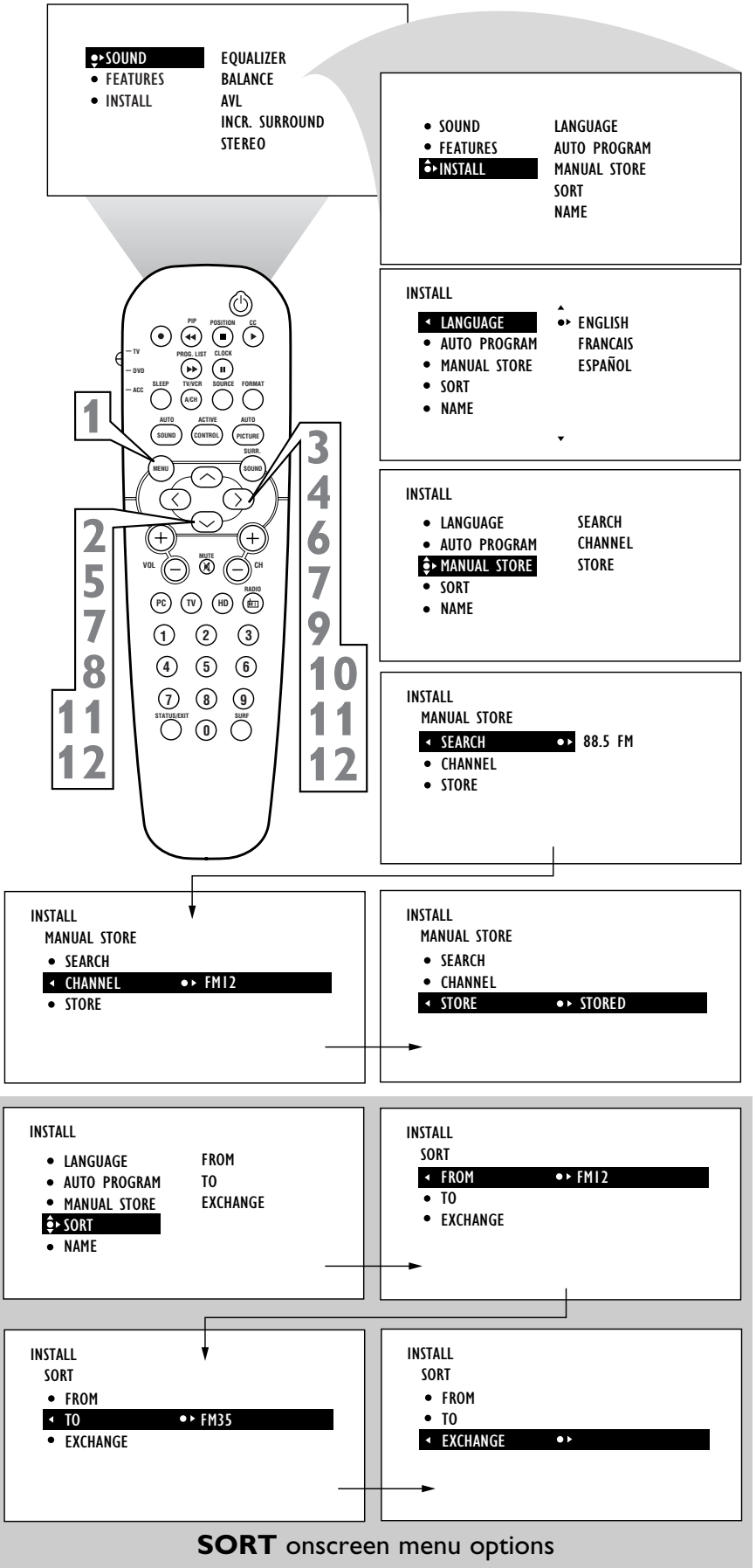
## MANUAL STORE/SORT

*To Manually search, store and sort FM channels follow the instructions below:*

1. **If in the FM Mode, press the MENU button** on the remote control to display the FM Mode onscreen menu.
2. **Press the CURSOR DOWN buttons** to highlight the MANUAL STORE option.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. SEARCH will be highlighted.
4. **Press the CURSOR RIGHT button** to begin the Manual Search of available FM stations. When a station is found, the search will end until activated again.
5. If the station found is one that you want to keep, **press the CURSOR DOWN button** to highlight CHANNEL.
6. **Press the CURSOR RIGHT button** repeatedly to toggle a list of 40 channel references (FM1 to FM40).
7. **Press the CURSOR DOWN button** to highlight STORE. Then, press the CURSOR RIGHT button to store the station to the selected channel reference. The onscreen menu will changed to STORED.

Repeat the process for any other FM Stations.

8. **To SORT the channels stored, press the CURSOR DOWN** (while in the INSTALL menu options) to highlight the word SORT.
9. **Press the CURSOR RIGHT** to shift the menu left. FROM will be highlighted.
10. **Press the CURSOR RIGHT button** repeatedly to select one of the channel references (FM1 to FM40) you wish to move.
11. **Press the CURSOR DOWN button to highlight TO.** Press the CURSOR RIGHT button repeatedly to select one of the channel references (FM1 to FM40) you want to swap the reference chosen in the previous step to.
12. **Press the CURSOR DOWN** to highlight EXCHANGE. Press the CURSOR RIGHT to swap the channel reference.




**SORT** onscreen menu options

# SETTING UP THE FM MODE (FM RADIO)

## SOUND CONTROLS

*To ensure the best sound quality from the FM Radio feature of this TV, several Sound Controls are available for adjustment.*

**1** **To enter the FM Mode, press the RADIO button** on the remote control. The FM Mode has its own onscreen menu options.

**2** **Press the MENU button** on the remote control to display the FM Mode onscreen menu.

**3** **Press the CURSOR DOWN button** until SOUND is highlighted.

**4** **Press the CURSOR RIGHT button** to shift the menu to the left, accessing the SOUND onscreen menu options. these option include: **EQUALIZER, BALANCE, STORE, AVL, INCREDIBLE SURROUND, STEREO, AUDIO OUT, or SPEAKERS.**

**EQUALIZER** - Allows the listener to change the sound frequencies to their liking.

**BALANCE** - This controls the sound level balance between the right and left TV speakers.

**STORE** - Once Sound controls are adjusted, activating the STORE control will save those settings in the TV's memory.

**AVL** - Automatic Volume Leveler, when ON, will keep the volume level at a consistent level should there be sudden peaks and valleys in sound levels during commercial breaks or channel changes.

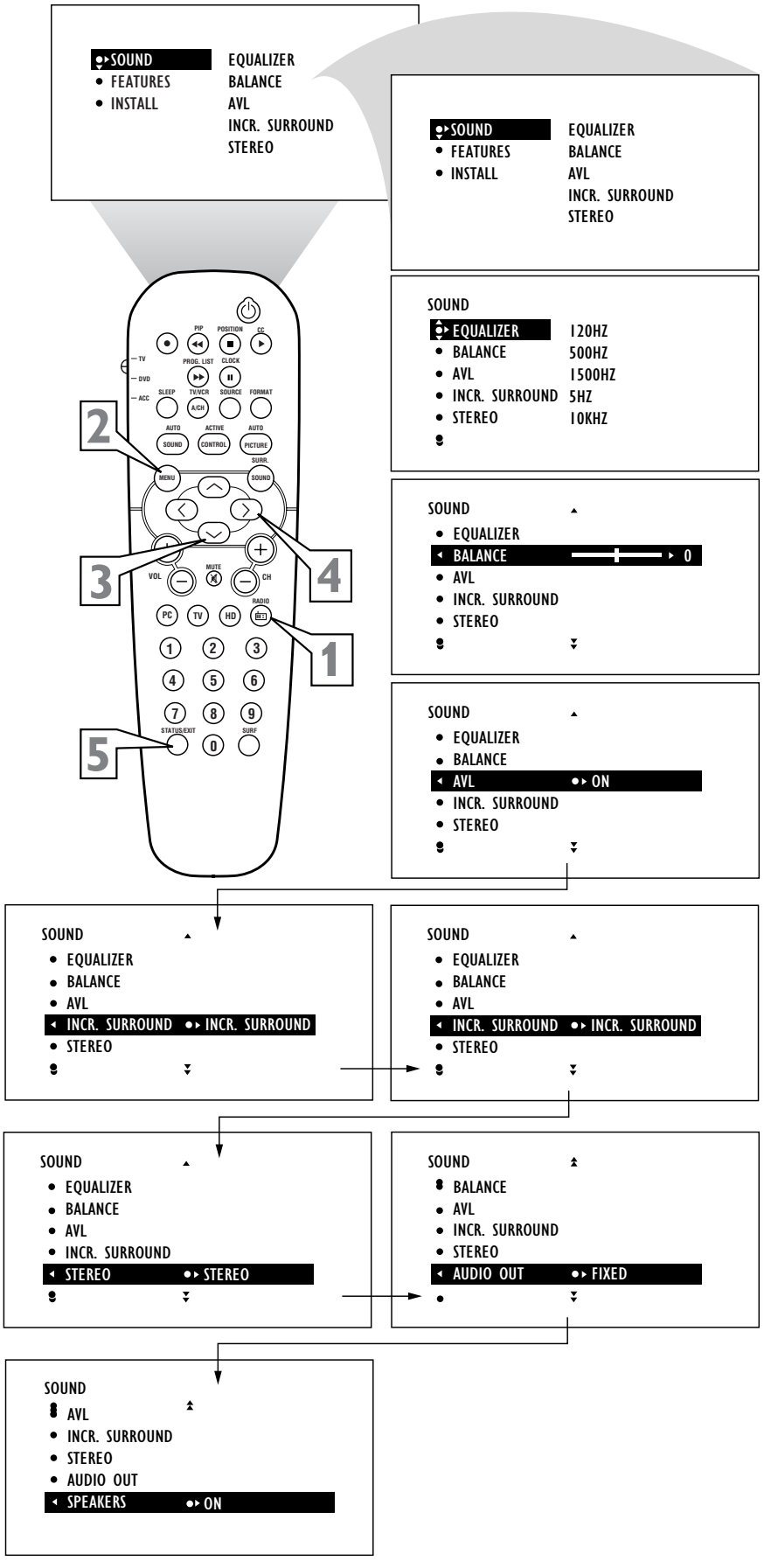
**INCREDIBLE SURROUND** - Allows the user to select a predefined Incredible Surround setting or Stereo when the signal is stereo or Spatial and Mono when the signal is being received in mono.

**STEREO** - Select Stereo or Mono. If the signal is being received in Mono the control cannot be placed in Stereo.

**AUDIO OUT** - When using an external stereo for sound reproduction, the Audio Out control will allow FIXED or VARIABLE output options.

**SPEAKERS** - When using an external speaker system, the Speaker control will allow you to turn the TV speakers ON or OFF.

**5** **Press the STATUS/EXIT button** to remove the onscreen menu from the TV screen when finished. Or, let the display time out and the menu will disappear after a few second.



# SETTING UP THE FM MODE (FM RADIO)

## TIMER CONTROLS

*The FM Radio within the TV can be set to turn on and off at a specific time, or tune to a specific channel when it powers on. The Timer controls also allows the FM Display to be turned on or off.*

**1** **To enter the FM Mode, press the RADIO button** on the remote control. The FM Mode has its own onscreen menu options.

**2** **Press the MENU button** on the remote control to display the FM Mode onscreen menu.

**3** **Press the CURSOR DOWN button** until TIMER is highlighted.

**4** **Press the CURSOR RIGHT button** to shift the menu to the left, accessing the TIMER onscreen menu options. these option include: **TIME, START TIME, STOP TIME, CHANNEL, ACTIVATE, or DISPLAY.**

**TIME** - This is simply the Clock setting. Allows you to enter the current time.

**START TIME** - This control allows you to set a specific time you want the FM Radio to turn ON.

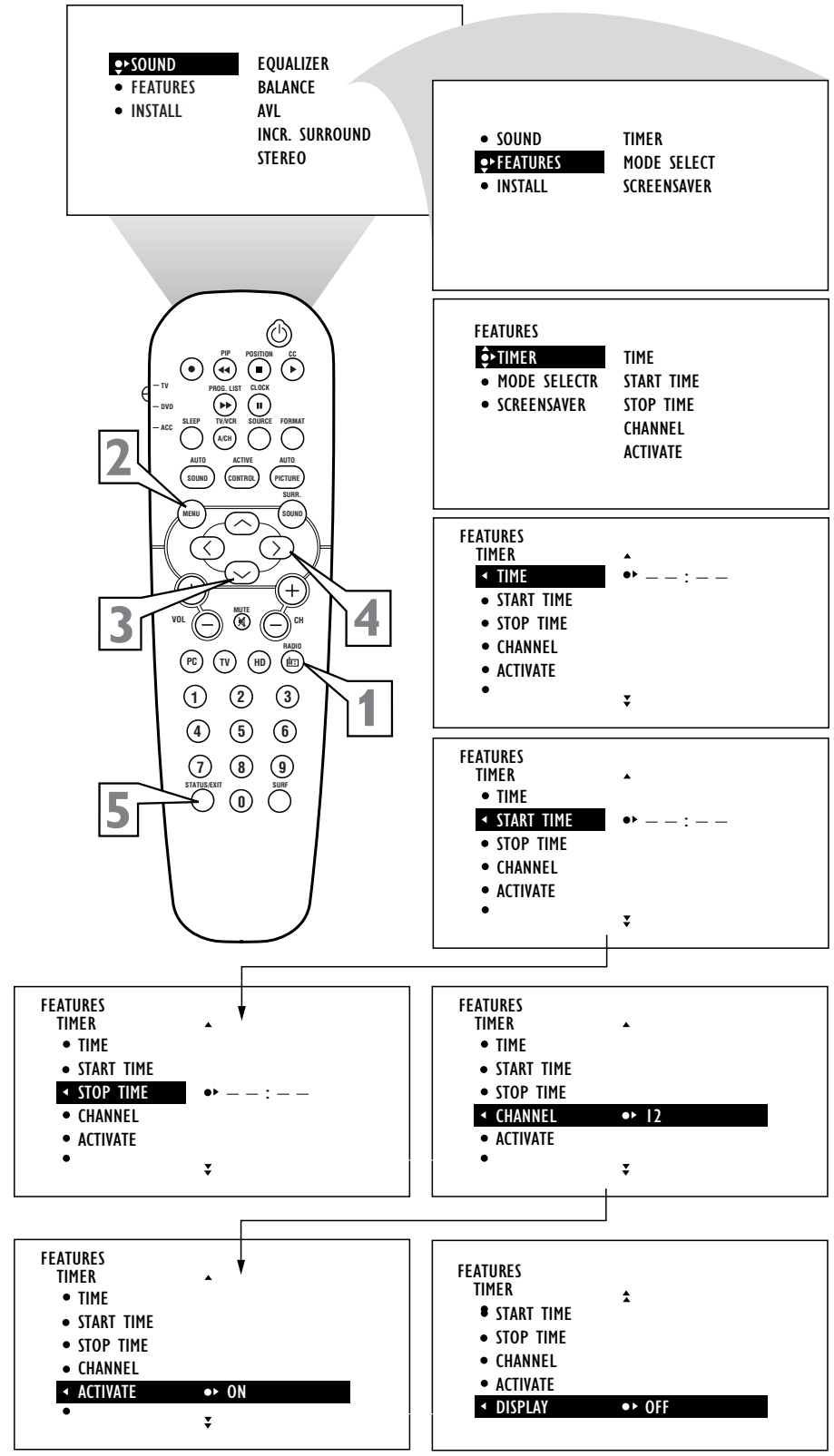
**STOP TIME** - This control allows you to set a specific time you want the FM Radio to turn OFF.

**CHANNEL** - This controls allows you to set a specific channel you want the FM Radio to tune to when it powers on.

**ACTIVATE** - Once the Time and channel controls have been adjusted, set Activate to ONCE or DAILY. ONCe will activate the process one time, while DAILY will activate the TIMER controls every week day.

**DISPLAY** - If set to ON, the Display control will display the current time on the TV screen when in the FM Mode.

**5** **Press the STATUS/EXIT button** to remove the onscreen menu from the TV screen when finished. Or, let the display time out and the menu will disappear after a few second.



# SETTING UP THE FM MODE (FM RADIO)

## MODE SELECT CONTROLS

*The Mode Select options allow you to move to other operating modes within he TV. When in the FM Mode, choose from TV, PC, or HD Modes.*

**1** **If in the FM mode, press the MENU button** on the remote control to display the FM Mode onscreen menu.

**2** **Press the CURSOR DOWN button** until MODE SELECT is highlighted.

**3** **Press the CURSOR RIGHT button** to shift the menu to the left, accessing the Mode Select onscreen menu options. **Press the CURSOR UP or DOWN buttons** to choose **TV, PC, or HD.**

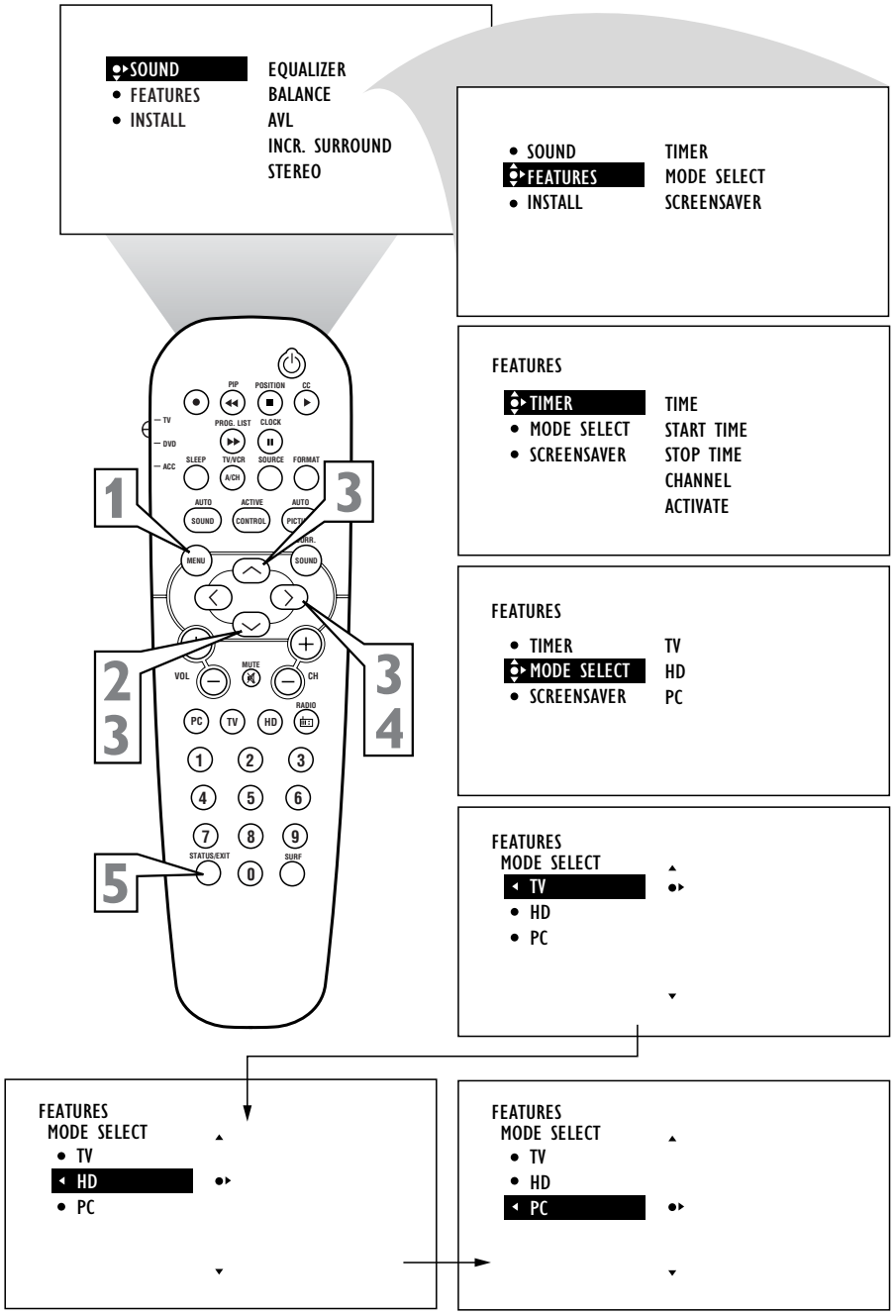
**TV** - This will switch the TV back to the TV Mode of operation.

**PC** - This control will switch the TV to the PC Mode of operation. Note a PC signal must be present for this to work, or the TV will go into standby mode.

**HD** - This control will set the TV to the High Definition Mode.

**4** **Press the CURSOR RIGHT button** to activate the selected control and change to the highlighted mode.

**5** **Press the STATUS/EXIT button** to remove the onscreen menu from the TV screen when finished. Or, let the display time out and the menu will disappear after a few second.



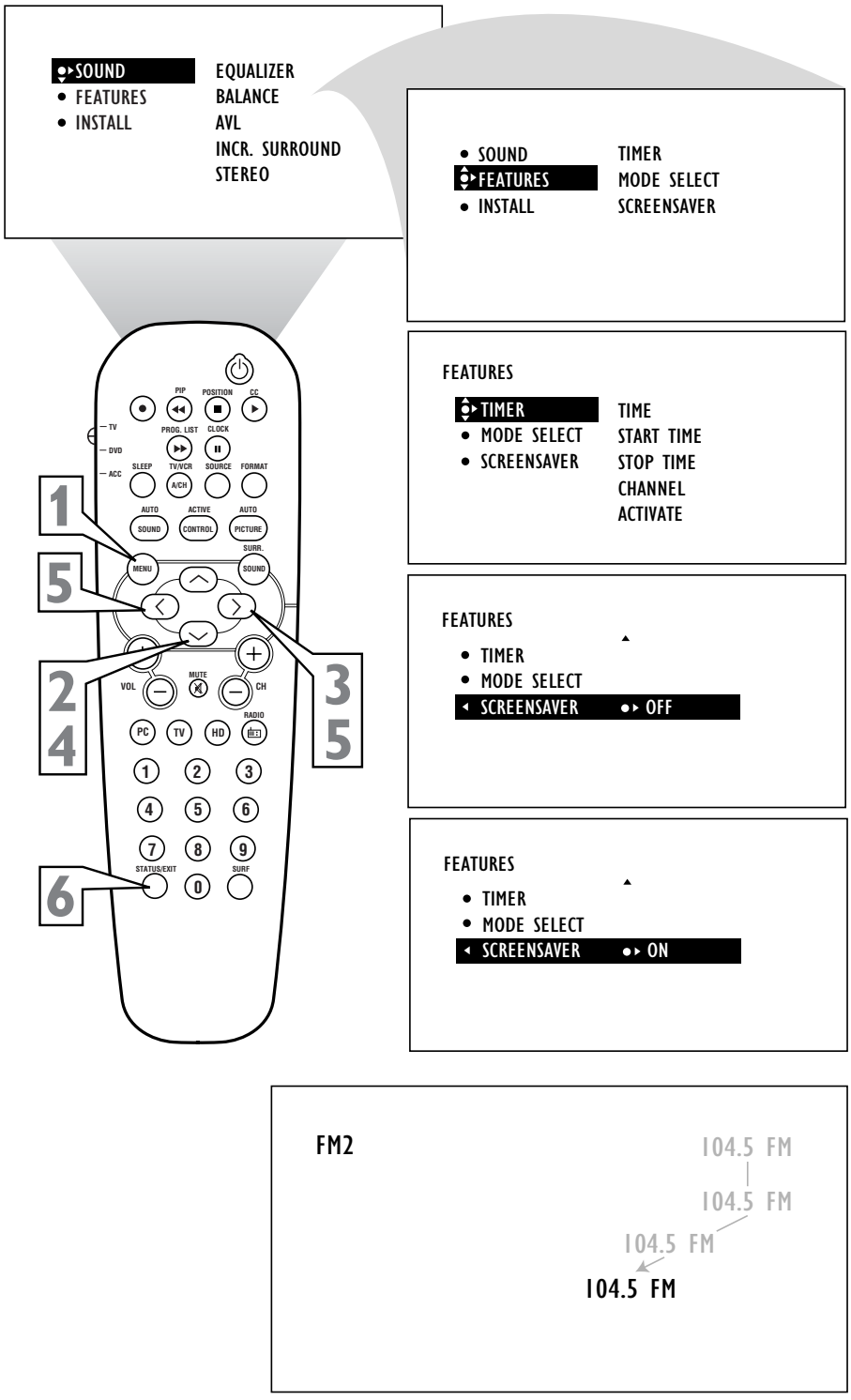
# SETTING UP THE FM MODE (FM RADIO)

## SCREENSAVER CONTROL

*While in the FM Mode, there is a Screensaver option that can be used. The Screensaver control, when on, will circulate the screen station indication around the display.*

1. **If in the FM mode, press the MENU button** on the remote control to display the FM Mode onscreen menu.
2. **Press the CURSOR DOWN button** until FEATURES is highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. TIMER will be highlighted.
4. **Press the CURSOR DOWN button** until SCREENSAVER is highlighted.
5. **Press the CURSOR RIGHT or LEFT button** to toggle the Screensaver control ON or OFF.

   With the Screensaver control set to ON, the display will shift around the screen pausing in one place for a brief moment.
6. **Press the STATUS/EXIT button** to remove the onscreen menu from the TV screen when finished. Or, let the display time out and the menu will disappear after a few second.



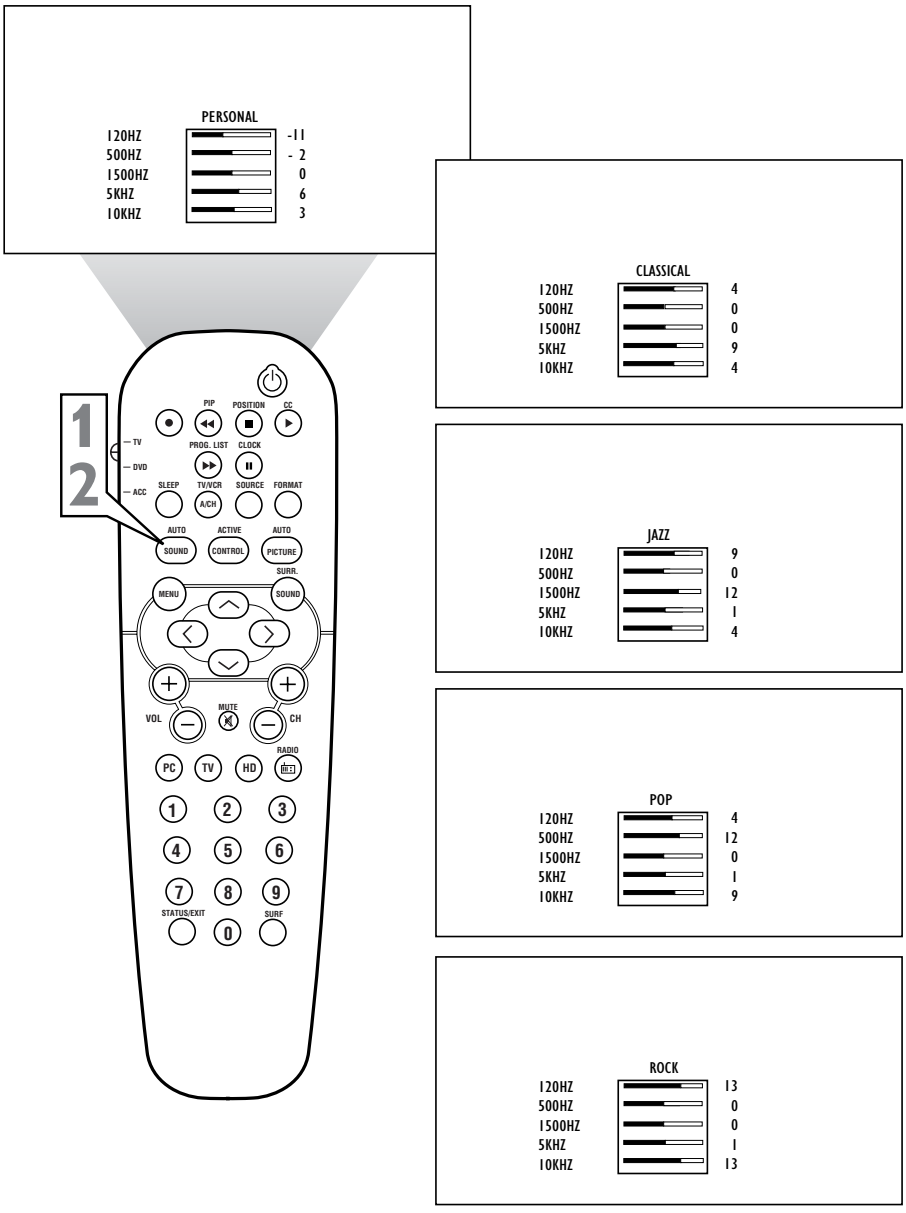
# SETTING UP THE FM MODE (FM RADIO)

## AUTOSOUND™ CONTROLS

*AutoSound™ allows you to select from four factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu within the FM Mode. The four factory-set controls (Classical, Jazz Pop, or Rock) enable you to tailor the sound so as to enhance the particular program you are listening to.*

**1** **If in the FM mode, press the AUTO SOUND button** on the remote control to display the first AutoSound™option on the screen.

**2** **Press the AUTO SOUND button** repeatedly to toggle through the factory pre-defined setting for the following musical styles: CLASSICAL, JAZZ, POP, ROCK or PERSONAL (the way you set the equalizer).



# SETTING UP THE HD MODE (HIGH DEFINITION)

## PICTURE CONTROLS

*The HD Mode offers certain Picture, Sound and Blocking options within its onscreen menu. Below is a list of Picture Menu options.*

**1** **Press the HD button** on the remote control to place the TV in the HD Mode (HD1).

**2** **Press the MENU button** on the remote control to display the HD Mode onscreen menu. The PICTURE option will be highlighted.

**3** **Press the CURSOR UP or DOWN buttons** until PICTURE is highlighted.

**4** **Press the CURSOR RIGHT button** to shift the menu to the left, accessing the Picture onscreen menu options.

**5** **Press the CURSOR UP or DOWN buttons** to highlight any of the HD Mode Picture Controls. Choose from: **BRIGHTNESS, COLOR, PICTURE, SHARPNESS, TINT, COLOR TEMP, or VIEW FORMAT**.

**BRIGHTNESS** - This control will adds or subtracts light from the darkest part of the picture.

**COLOR** - This control adds or eliminates color intensity from the picture.

**PICTURE** - This control improves the detail of the lightest parts of the picture.

**SHARPNESS** - This control improves the detail in the picture.

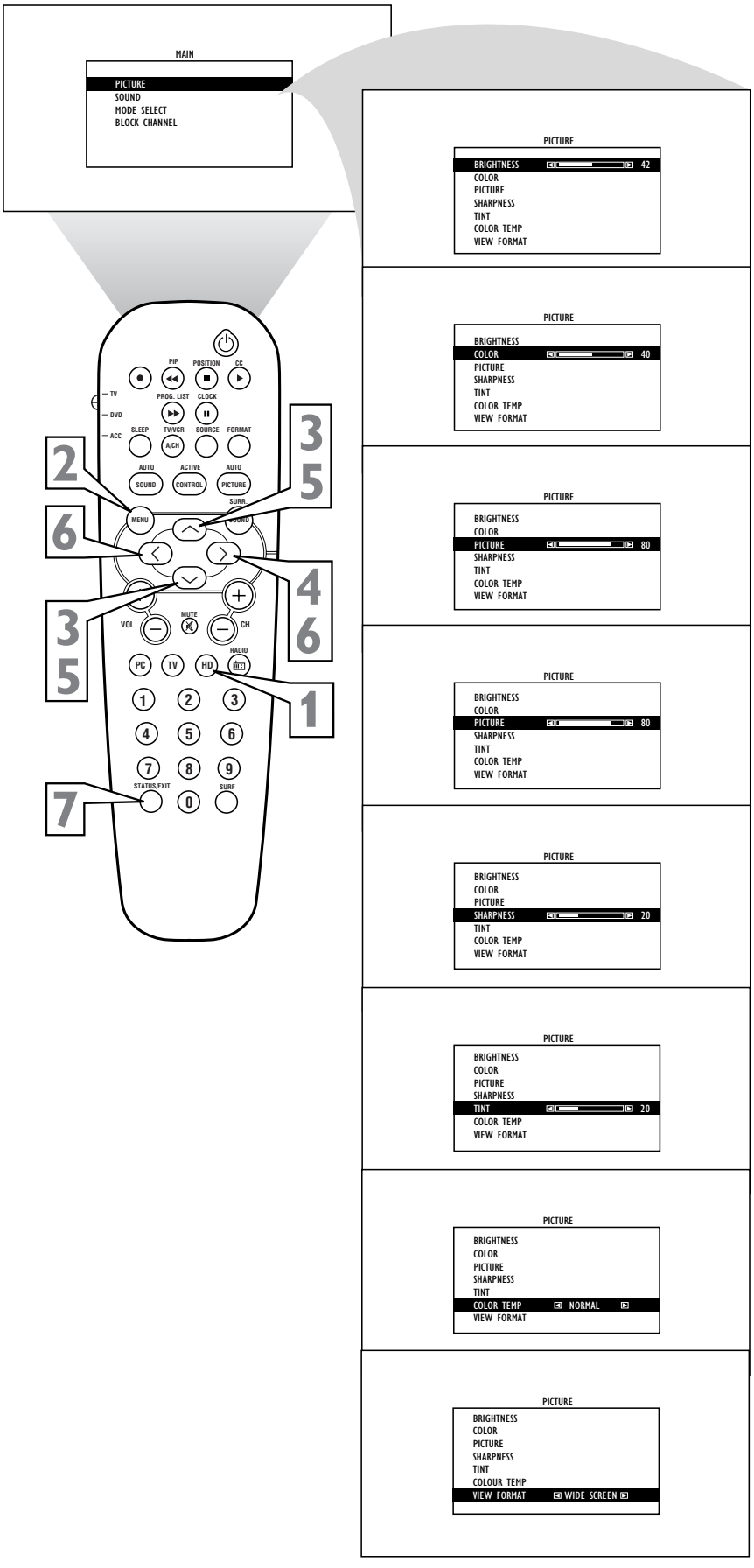
**TINT** - This control adjusts the picture to obtain natural skin tones.

**COLOR TEMP** - Choose from NORMAL (keeps whites, white), COOL (makes whites, bluish), or WARM (makes whites, reddish) picture preferences.

**VIEW FORMAT** - Choose between the FULL SCREEN or WIDE SCREEN formats.

**6** **Press the CURSOR RIGHT or LEFT buttons** to adjust the selected control.

**7** **Press the STATUS/EXIT button** to remove the onscreen menu from the TV screen when finished. Or, let the display time out and the menu will disappear after a few second.



# SETTING UP THE HD MODE (HIGH DEFINITION)

## SOUND CONTROLS

*The HD Mode also offers certain Sound control adjustments to fine tune the sound being heard when in the HD Mode.*

**1** **Press the HD button** on the remote control to place the TV in the HD Mode (HD1).

**2** **Press the MENU button** on the remote control to display the HD Mode onscreen menu. The PICTURE option will be highlighted.

**3** **Press the CURSOR UP or DOWN buttons** until SOUND is highlighted.

**4** **Press the CURSOR RIGHT button** to shift the menu to the left, accessing the SOUND onscreen menu options.

**5** **Press the CURSOR UP or DOWN buttons** to highlight any of the HD Mode Sound Controls. Choose from: **EQUALIZER, BALANCE, or AVL**.

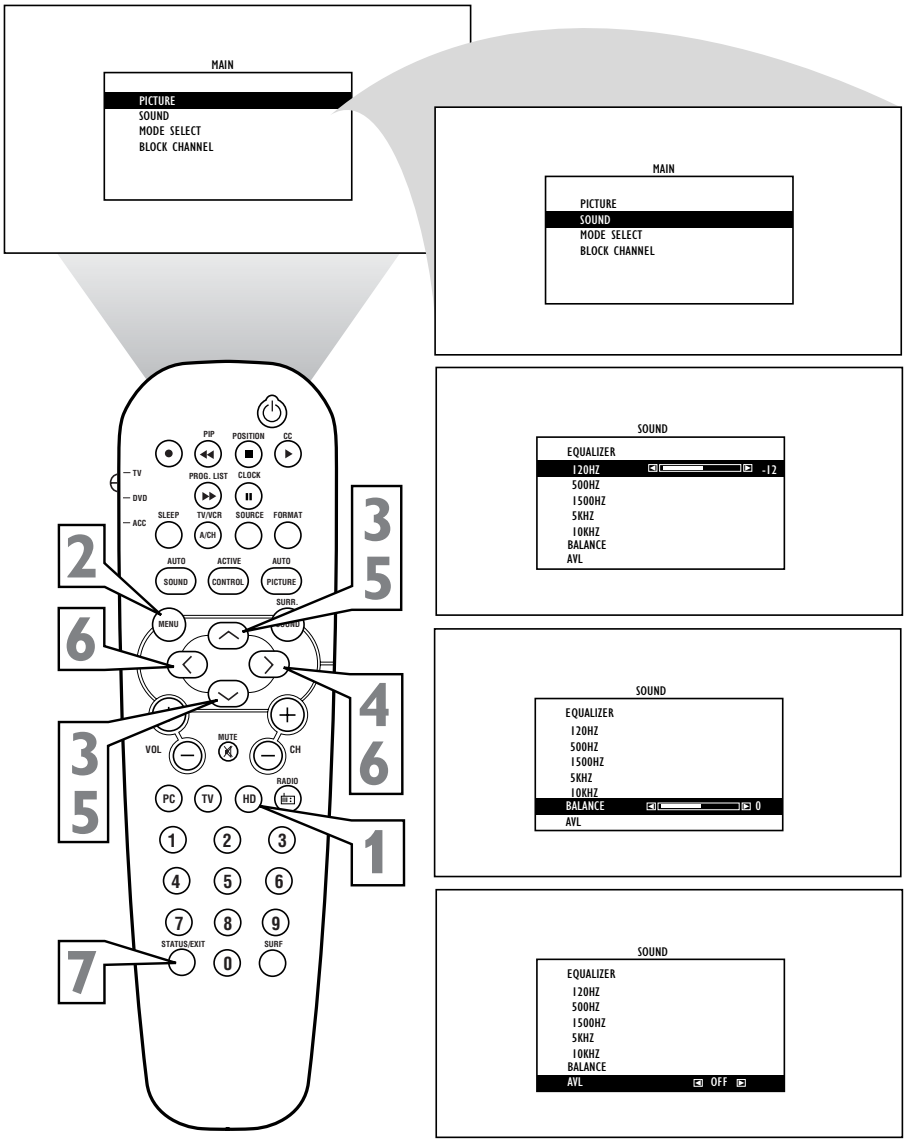
**EQUALIZER** - Allows the listener to change the sound frequencies to their liking.

**BALANCE** - This controls the sound level balance between the right and left TV speakers.

**AVL** - Automatic Volume Leveler, when ON, will keep the volume level at a consistent level should there be sudden peaks and valleys in sound levels during commercial breaks or channel changes.

**6** **Press the CURSOR RIGHT or LEFT buttons** to adjust the selected control.

**7** **Press the STATUS/EXIT button** to remove the onscreen menu from the TV screen when finished. Or, let the display time out and the menu will disappear after a few second.



# SETTING UP THE HD MODE (HIGH DEFINITION)

## HD SELECT CONTROL

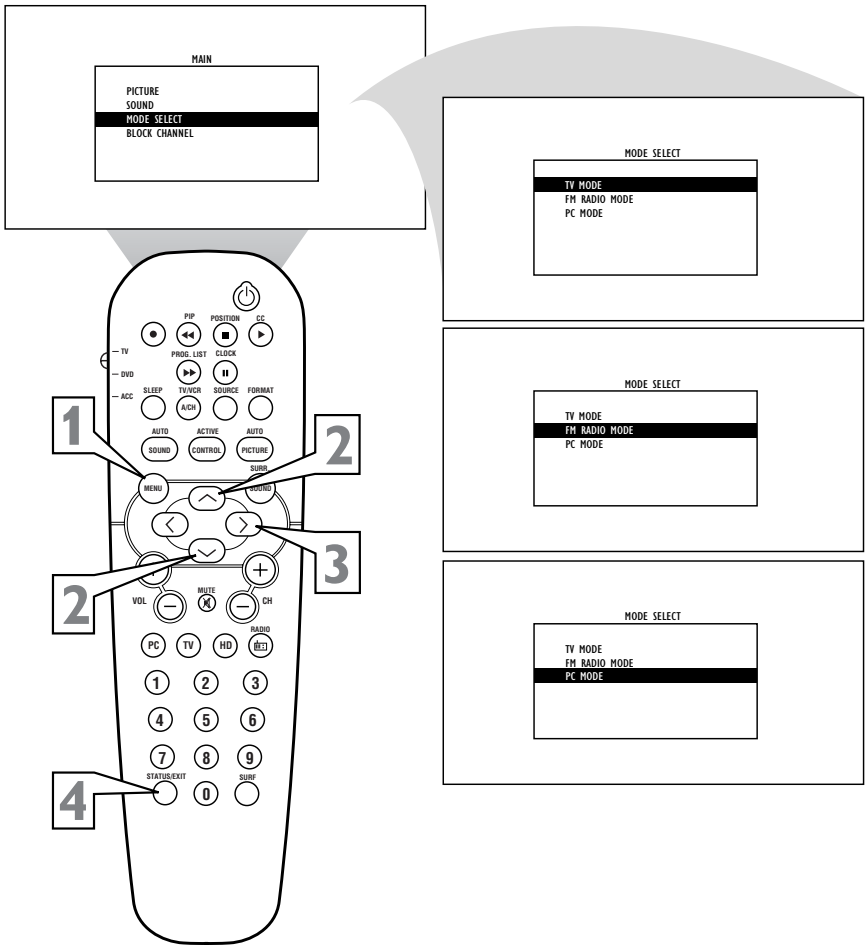
*The HD Select Control will allow you to quickly change from the HD Mode of operation to the TV, FM Radio, or PC Modes.*

**1** **If in the HD Mode, press the MENU button** on the remote control to display the HD Mode onscreen menu. The PICTURE option will be highlighted.

**2** **Press the CURSOR UP or DOWN buttons** until MODE SELECT is highlighted.

**3** **Press the CURSOR RIGHT button** to shift the menu to the left displaying the MODE SELECT options. Choose from **TV MODE, FM RADIO MODE, or PC MODE**.

**4** **Press the CURSOR RIGHT button** to activate the highlighted mode control.

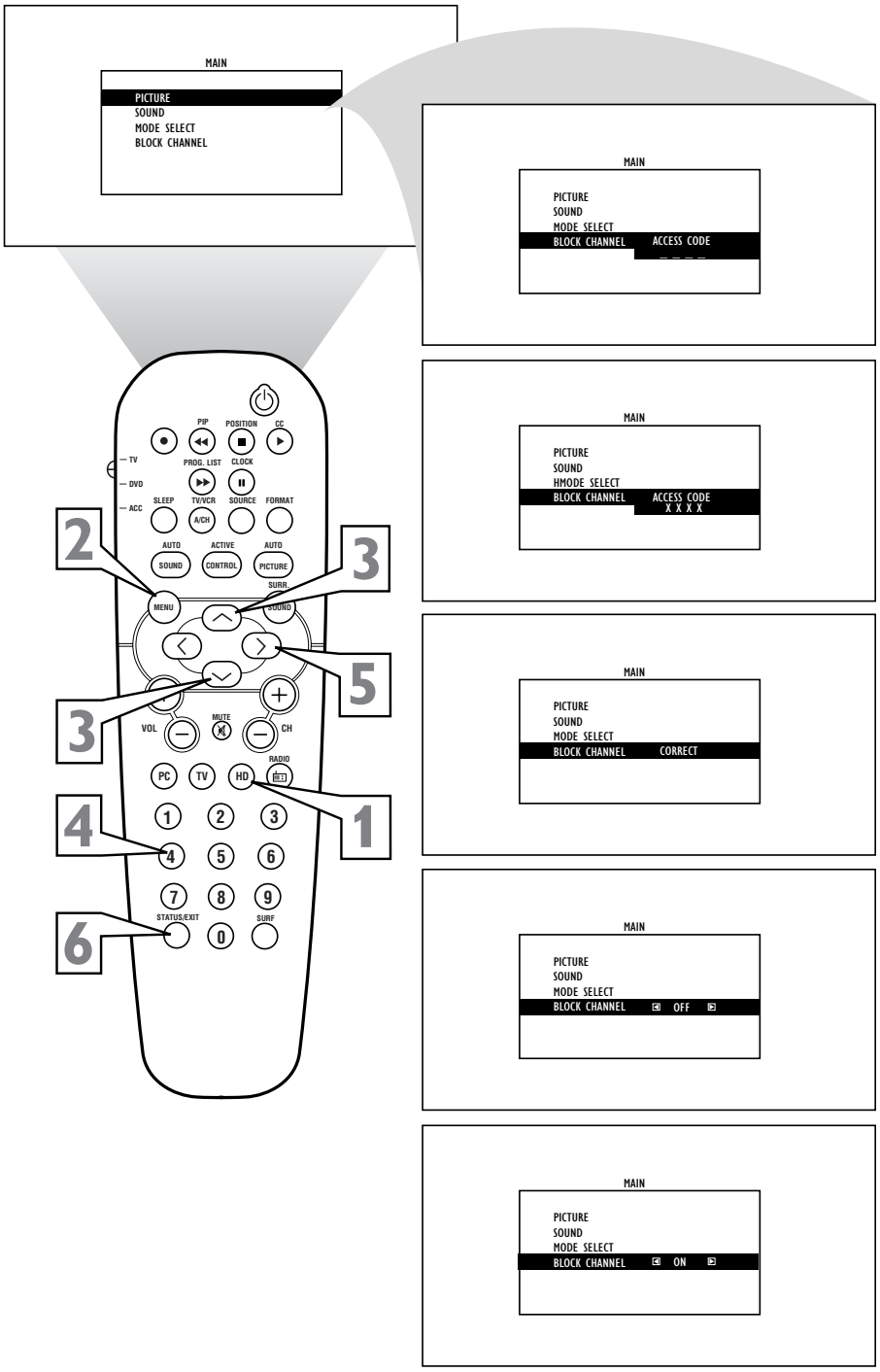


# SETTING UP THE HD MODE (HIGH DEFINITION)

## BLOCK CHANNEL CONTROL

*The HD Mode channel can be blocked to censor the viewing of programming not suitable for children. To block the HD Mode channel, follow the steps below.*

1. **Press the HD button** on the remote control to place the TV in the HD Mode (HD1).
2. **Press the MENU button** on the remote control to display the HD Mode onscreen menu. The PICTURE option will be highlighted.
3. **Press the CURSOR UP or DOWN buttons** until BLOCK CHANNEL is highlighted.
4. **Press the NUMBERED buttons** and enter your four digit Access Code that was setup for the TV AutoLock feature. The Block Channel Control will be available for adjustment
5. **Press the CURSOR RIGHT button** to toggle the control ON or OFF. If set to ON, the HD1 channel (mode) will not allow viewing of programs. This control would have to be set to OFF to make the HD1 channel (mode) viewable.
6. **Press the STATUS/EXIT button** to remove the onscreen menu from the TV screen when finished.



# SETTING UP THE PC MODE (PERSONAL COMPUTER MONITOR)

## PC MODE CONTROLS

*The TV can be used as a PC Monitor.* ***A PC video signal must be present or the TV will go into standby mode.***

*Follow the steps below to access and adjust the onscreen PC Menu controls.*

**1** **Press the PC button** on the remote control to place the TV in the PC Mode.

**2** **Press the MENU button** on the remote control to display the PC Mode onscreen menu. The AUDIO SELECTION option will be highlighted.

**3** **Press the CURSOR UP or DOWN buttons** to highlight any of the listed onscreen menu options.

Choose from:

**AUDIO SELECTION** - Will allow the Audio Source to come from the PC, the TV, or the FM Radio.

**BRIGHTNESS & CONTRAST** - Allows you to adjust the Brightness and Contrast picture levels.

**ADJUST COLOR** - This control allow you to set the Color Temperature of the picture. Choose between the Normal, Cool or Warm pre-defined settings.

**VIDEO NOISE** - Will allow you to remove any flickering Vertical or Horizontal bars that may appear on the screen.

**ADJUST POSITION** - This control will allow you to move the onscreen picture horizontally or vertically for better viewing pleasure.

**AUTO ADJUST** - The Auto Adjust will automatically adjust the control based on the signal being received to give the best possible picture.

**PIP CONTROLS** - change the Size and Position of the PIP window on the screen when the PIP button is used.

**MODE SELECT** - Enter the TV or FM Mode using this control.

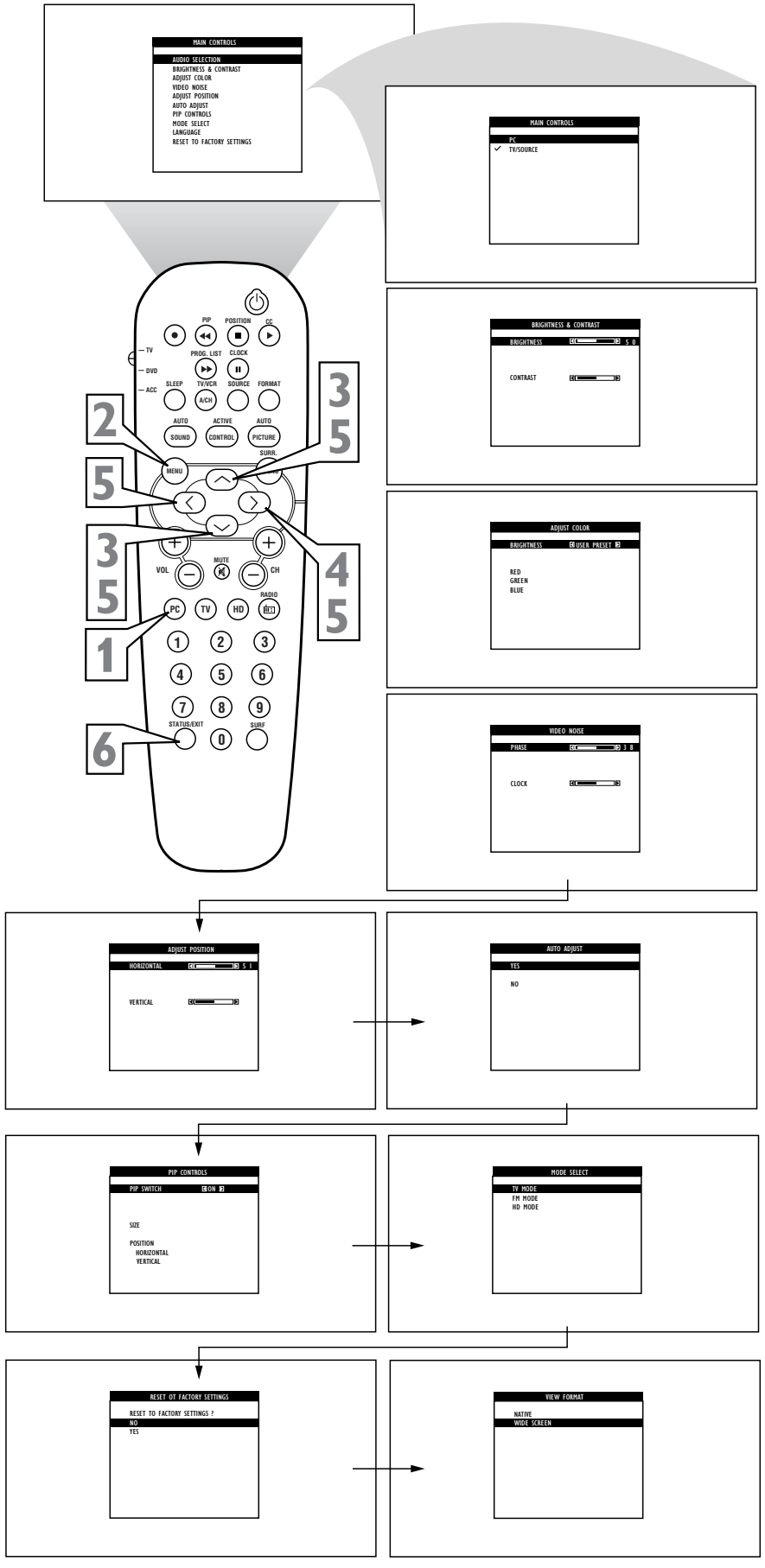
**RESET TO FACTORY SETTINGS** - Will reset all setting to the factory default values.

**VIEW FORMATS** - Choose between the NATIVE (the format that is dictated by the type of accessory device being used) and WIDE SCREEN formats.

**4** **Press the CURSOR RIGHT button** to enter the sub-menu of any of the highlighted onscreen menu controls.

**5** **Use the CURSOR UP, DOWN, RIGHT or LEFT buttons** to navigate, adjust or activate the specific controls.

**6** **Press the STATUS/EXIT button** to remove the onscreen menu from the TV screen when finished.



# SETTING UP THE PC MODE (PERSONAL COMPUTER MONITOR)

| No. | Resolution | Refresh Rate | Vertical Sync | Horizontal Sync | Horizontal Polarity | Pixel Frequency |
|---|---|---|---|---|---|---|
| 1 | 640 x 480 | 60 Hz | N | 31,500 kHz | N | 25,175 MHz |
| 2 | | 67 Hz | N | 35,000 kHz | N | 30,240 MHz |
| 3 | | 72 Hz | N | 37,900 kHz | N | 31,500 MHz |
| 4 | | 75 Hz | N | 37,500 kHz | N | 31,500 MH |
| 5 | | 85 Hz | N | 43,300 kHz | N | 36,000 MHz |
| 6 | 720 x 400 | 70 Hz | P | 31,469 kHz | N | 28,322 MHz |
| 7 | 800 x 600 | 56 Hz | P | 35,100 kHz | P | 36,000 MHz |
| 8 | | 60 Hz | P | 37,900 kHz | P | 40,000 MHz |
| 9 | | 72 Hz | P | 48,100 kHz | P | 50,000 MHz |
| 10 | | 75 Hz | P | 46,900 kHz | P | 49,500 MHz |
| 11 | | 85 Hz | P | 53,700 kHz | P | 56,250 MHz |
| 12 | 832 x 624 | 75 Hz | P | 49,700 kHz | P | 57,300 MHz |
| 13 | 1024 x 768 | 60 Hz | N | 48,400 kHz | N | 65,000 MHz |
| 14 | | 70 Hz | N | 56,500 kHz | N | 75,000 MHz |
| 15 | | 75 Hz | P | 60,000 kHz | P | 78,750 MHz |
| 16 | | 85 Hz | P | 68,700 kHz | P | 94,500 MHz |
| 17 | 1152 x 864 | 75 Hz | P | 67,500 kHz | P | 108,000 MHz |
| 18 | 1280 x 960 | 60 Hz | P | 60,000 kHz | P | 108,000 MHz |
| 19 | 1280 x 1024 | 60 Hz | P | 64,000 kHz | P | 108,000 MHz |
| 20 | | 75 Hz | P | 80,000 kHz | P | 135,000 MHz |

# Troubleshooting Tips

### No Power
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Check that the outlet is not on a wall switch.
- Be sure the fuse is not blown on the AC power strip, if one is being used.

### No Picture
- Check antenna/cable connections. Are they properly secured to the TV's ANT 75Ω plug?
- Check the TUNER MODE control for the correct tuner setting.
- Try running the Auto Program feature to find all available channels.
- Press the SOURCE button on the remote to make sure the correct signal source is selected.
- If using an accessory device, be sure that it is functioning properly.
- If in PC Mode, a video signal MUST BE present or the TV will turn off.

### No Sound
- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- If you're attempting to hook up auxiliary equipment, check the audio jack connections.

### TV Only Produces MONO Sound
- If using a cable box with RF only type connections, the signal coming from the cable box will be produced in MONO only.
- Check Sound control setting. Change setting to Stereo.

### Remote Does Not Work
- Check the batteries. If necessary, replace them with AA Heavy Duty (Zinc Chloride) or Alkaline batteries.
- Clean the remote control and the remote control sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Be sure the fuse is not blown on the AC power strip, if one is being used.
- Check to be sure the TV outlet is not on a wall switch.
- Be sure that the remote is in the correct operating mode.
- Be sure the remote is pointed at the Remote Sensor Window on the TV. See page 1 of the *Quick Use Guide* for details.

### TV Displays Wrong Channel or No Channels Above 13
- Repeat channel selection.
- Add the desired channel numbers (using the CHANNEL EDIT control) into the TV's memory.
- Check to be sure the TUNER MODES are set to the CABLE option and run the Auto Program feature to find all available channels.

# Cleaning and Care

### WARNING Concerning Stationary Images on the TV Screen:

**Do not leave stationary or letterbox images on screen for extended periods of time. This can cause uneven display aging.**

Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Be careful not to leave nonmoving images on screen for extended periods of time, or to display the same images on screen too frequently, because subtle ghost images can be left on the picture tubes. Sources of stationary images may be DVD disks, laser disks, video games, CD-i disks, videotapes, digital television boxes, broadcast channels, cable channels, satellite channels, and others. **Here are some examples of stationary images (this is not an all-inclusive list; you may encounter others in your viewing):**
- **DVD menus—**listings of DVD disk content
- **Letterbox black bars—**shown at the top and bottom of the TV screen when a wide screen (16:9) movie is viewed on a TV with standard (4:3) aspect ratio.
- **Video-game images and scoreboards**
- **Television station logos—**present a problem if they are bright and stationary; moving or low-contrast graphics are less likely to cause uneven aging of the picture tube
- **Stock-market tickers—**presented at the bottom of the TV screen
- **Shopping channel logos and pricing displays—**bright and shown constantly or repeatedly in the same location on the TV screen.

### Placement of the TV
- To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot; for example, in direct sunlight or near a heating appliance.
- Be sure to allow a free flow of air to and from the perforated back cover of the set.

### Cleaning
- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- Regularly dust the TV with a dry, nonscratching duster to keep the TV clean.
- When cleaning the TV, take care not to scratch or damage the screen surface. Avoid wearing jewelry or using anything abrasive. Do not use household cleaners. Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool, clear water and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces. Do not use acetone, toluene, or alcohol to clean the screen.
- Occasionally vacuum the ventilation holes or slots in the back cover of the set.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

# Glossary of Terms

**Active Control** • Active Control continuously measures and corrects the incoming signals to provide the best picture possible.

**Audio/Video Inputs** • Jacks (standard RCA), located on the back of the TV, used for external accessory devices. These jacks are designed to receive higher picture resolution and offer sound-connection options.

**Auto Programming** • When activated, this feature scans for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

**Channel Edit** • The feature that allows you to add or delete channels from the list of channels stored in the TV's memory.

**Closed Captioning** • The broadcast standard feature that allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, Closed Captioning shows dialogue and conversations while a TV program is in progress.

**Coaxial Cable** • A single solid wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75-ohm input found on the television or VCR.

**Component Video Inputs** • Inputs that allow the separate reception of blue, red, and luminance signals. These inputs provide the highest possible color and picture resolution in the playback of digital signal-source material, such as the kind available from DVD players.

**Composite Video Input** • An input in which all the components required for displaying the onscreen image are combined in one signal.

**High-definition Television (HDTV)** • High-resolution digital television.

**Incredible Surround** • False acoustic management of the audio signal that produces a dramatic expansion of the wall of sound that surrounds the listener and heightens overall viewing pleasure.

**Menu** • An onscreen list of feature controls available for you to adjust or set.

**Onscreen Displays (OSD)** • The wording or messages generated by the television (or VCR) to help you with specific feature controls (color adjustment or programming, for example).

**Remote Control Sensor Window** • The window or opening found on the television control panel through which infrared remote control command signals are received.

**Second Audio Program (SAP)** • An additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. A monaural soundtrack included within the recorded or video signal (usually containing a second language translation for the displayed programming).

**Status/Exit Button** • The remote control function that allows you to quickly confirm what channel number you are watching. Status/Exit can also be used to clear the television of onscreen displays or information. You can use Status/Exit rather than having to wait for the displays to "time out," or automatically disappear from the screen.

**S-Video Input** • Signal input that allows direct connection of high-resolution video sources, such as a satellite receiver, DVD player, S (Super)-VHS videocassette recorder, or video games. Provides improved picture resolution, sharpness, and clarity.

**Tint** • TV function that allows you to change the general color balance between cool and warm. Adjust tint according to your personal preference.

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# FACTORY SERVICE LOCATIONS

**★ Indicates In-Home Service Only**
*Milwaukee: call Chicago*
*Cincinnati and Columbus: call Cleveland*
*Nashville and Chattanooga: call Knoxville*
*Washington/Baltimore: call Philadelphia*
*Charlotte: call Atlanta*
*All Florida locations; call Tampa*

**• Indicates In-Home/Carry-In Service**
*Toll-free numbers provided on the next page*

**NOTE:** If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

**NOTA:** Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d`achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

**NOTA:** Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

**In Canada**

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product
Please contact Philips at 1-800-661-6162 (French speaking)
1-800-531-0039 (English or Spanish speaking)

**Au Canada**

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile
Veuillez contacter philips á: 1-800-661-6162 (Francophone)
1-800-531-0039 (Anglais ou Espagnol)

**En el Canadá**

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo
Favor de comunicarse con Philips al: 1-800-661-6162 (francófono)
1-800-531-0039 (Inglés o Español))

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# Factory Service Locations

**Quality service is as close as your telephone! Simply look over the list below for the number of a Factory Service Center near you. Your product will receive efficient and expedient carry-in, mail-in, or in-home service, and you will receive peace of mind, knowing your product is being given the expert attention of Philips' Factory Service.**

**COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.**

**CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.**

**ATLANTA**
Philips Factory Service
550 Franklin Road., Suite F
Marietta, GA 30067
800-273-1501

**TAMPA**
Philips Factory Service
1911 US Highway 301 North, Suite 100
Tampa, FL 33619
800-442-2027

**SAN FRANCISCO**
Philips Factory Service
681 East Brokaw Rd.
San Jose, CA 95112
800-300-9013

**HOUSTON**
Philips Factory Service
1110 N. Post Oak Rd., Suite 100
Houston, TX 77055
800-952-3254

**CLEVELAND**
Philips Factory Service
950 Keynote Circle
Brooklyn Heights, OH 44131
800-331-7037

**DETROIT**
Philips Factory Service
25173 Dequindre
Madison Heights, MI 48071
800-438-1398

**DALLAS**
Philips Factory Service
415 N. Main Street, #107
Euless, TX 76040
800-952-3254

**LOS ANGELES**
Philips Factory Service
20930 Bonita, Ste. V
Carson, CA 90746
800-300-9013

**CHICAGO**
Philips Factory Service
1279 W. Hamilton Pkwy.
Itasca, IL 60143
800-531-2922

**KNOXVILLE**
Philips Factory Service
One Philips Drive
Knoxville, TN 37914
800-821-1767

**PHILADELPHIA**
Philips Factory Service
352 Dunks Ferry Rd.
Bensalem, PA 19020
800-847-9320

# LCD COLOR TELEVISION

One Year Free Labor
One Year Free Replacement of Parts
This product must be carried in for service.

## WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

## WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For one year thereafter,* all parts will be repaired or replaced free, and labor is free. From one year from the day of purchase, all parts will be repaired or replaced free, and for all labor charges. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

## WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

## WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

## MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

## BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

## TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

## TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

**1-800-661-6162** if calling from Canada (French speaking)
**1-800-531-0039** (English or Spanish speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

## REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

*This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.*

**Philips Consumer Electronics, P.O. Box 520890, Miami, FL 33152, (402) 536-4171**

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